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UNIVERSITY OF ALBERTA

folio

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Board raises tuition fees to the max

By Michael Robb

They chanted, "The people, united, will never be defeated."

They sang the American anthem.

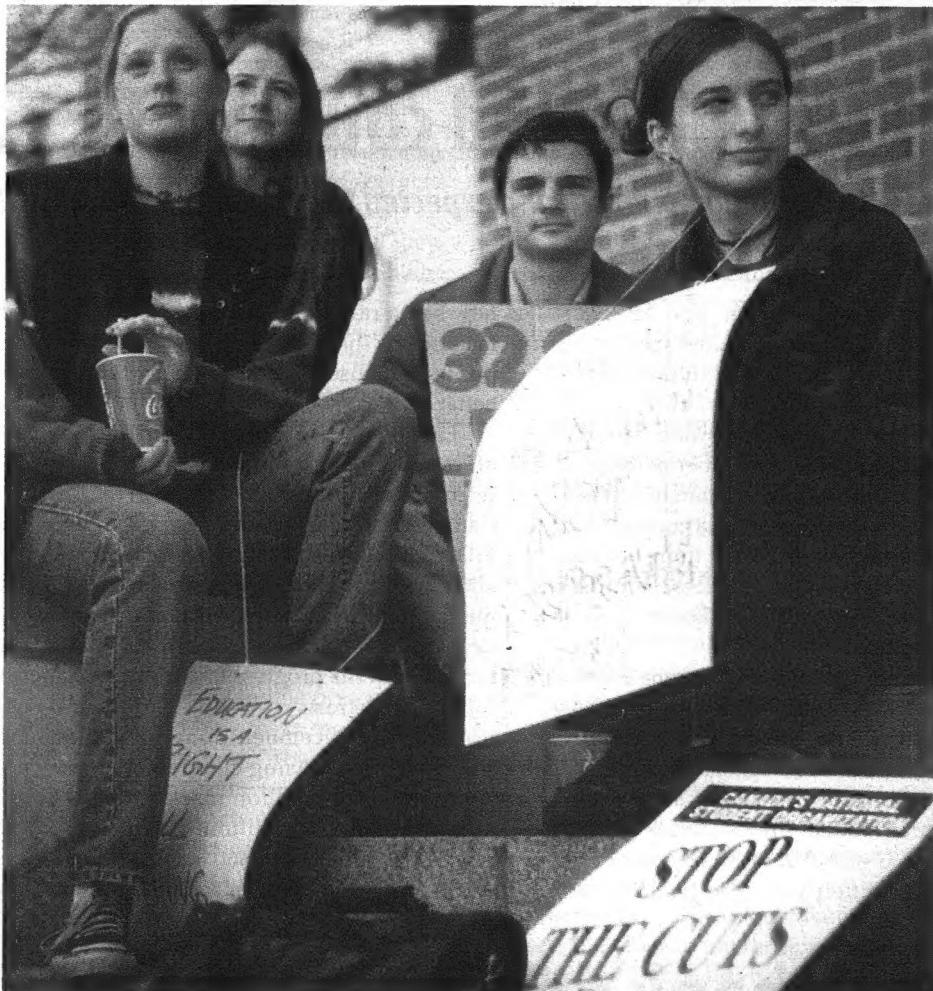
And they repeatedly shouted down the Board of Governors, forcing board chair Lloyd Malin to adjourn the meeting for 10 minutes to allow tempers to cool.

But in the end, the vote at last Friday's Board of Governor's meeting—a 12-6 majority—to raise tuition fees by the maximum allowable, 8.92 per cent, for the 1998/99 year, wasn't even close. Only three publicly appointed board members, Penny Reeves, Ed Makarenko and David Foy, voted with the students. Next year, students will pay \$233 more in tuition fees on average.

The meeting was one of the most raucous in recent memory, as students jammed council chambers in an attempt to influence the vote. Students waved placards, shouted sarcastic criticisms and ridiculed board members' statements. One student, demanding to be heard, began reading a statement, forcing the temporary adjournment.

The deep schism between students—many of them wearing tape over their mouths—and administrators and governors was never more apparent. Some students are predicting the decision will prejudice relations for years to come. Graduate Students' Association president Peter Cahill, who supported a compromise five per cent increase, said he was astonished. "Coming to the table seems to have had precious little use at the end of the day."

The most unfortunate consequence of the whole affair, said Academic Association representative Dr. Franco Pasutto, is students have been pitted against the university. The real villain, says Pasutto, has



Michael Robb

been the provincial government's chronic underfunding of the post-secondary education system. "The 20 per cent cuts in operating were devastating."

Last month, the board delayed its decision on tuition fees, sending administration back to come up with a budget scenario based on a five per cent increase, along with a scenario based on the 8.92 per

cent maximum allowed by the provincial government's tuition fee policy. Vice-Presidents, Dr. Doug Owram, and Glenn Harris, reiterated what they told the board a month ago: A five per cent tuition fee increase would result in a shortfall of about \$2.8 million, job losses and the slowdown of important key strategic initiatives, such as faculty renewal.

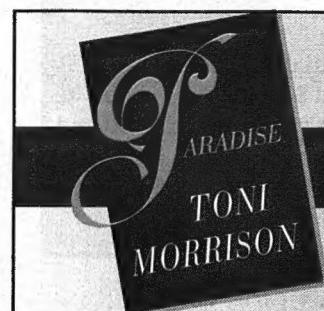
Owram reminded the board the U of A is underfunded relative to other major Canadian universities and there are indications the U of A will have to accommodate more students not fewer.

Over the last several weeks, a number of developments influenced the vote. The University of Calgary raised tuition to the maximum. The provincial government reaffirmed its decision to cap tuition fees at a maximum of 30 per cent of operating revenues, and boosted the money it will spend on bursaries and scholarships, particularly for first- and second-year students. The Federal Government signalled its intention to include the proposed Millennium scholarship and bursary fund in this month's federal budget.

Roughly 2,400 students signed a petition calling on the board to opt for the five per cent increase over the maximum allowable. Faculty deans made it clear they would be unhappy settling for anything less than the maximum tuition increase allowable. The deans, worried that key strategic initiatives would be jeopardized, sent representatives to the board's finance and property committee and argued cuts would be devastating to morale.

Harris also warned the five per cent increase would mean a \$428,000 reduction in graduate scholarships and bursaries and budget cuts would average one per cent across the university.

Students did, however, successfully push through a motion calling for additional bursary allocations if the U of A moves up next year from the middle-tier ranking in the government's key performance index ratings to the top ranking. The administration is also investigating meaningful ways to involve students in future tuition increases and ways in which more revenues might be directed to bursaries. ■



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PARADISE by Toni Morrison

Hey, gardeners, spring is coming early!

What do ocean temperatures have to do with the arrival of spring in Edmonton? Lots, say researchers

By Michael Robb

avid gardeners take note: Spring in Alberta is going to be early by about 12 days.

How can Elisabeth Beaubien, a research associate with the Devonian Botanic Garden, confidently predict that? It turns out that Beaubien and Howard Freeland of the National Oceanic and Atmospheric Administration in British Columbia have charted a strong relationship between ocean temperatures and the arrival of spring in Alberta.

In 1992, for example, warm ocean temperatures precipitated by the El Nino phenomenon meant spring arrived in Alberta in late March. In Edmonton the first blooms of the aspen poplar trees—one measure

of the biological beginning of spring—occurred March 25 and heralded the change of seasons. Coincidence? No, says Beaubien. They've looked at the past 25 years of meteorological data and blooming data and discovered that spring has arrived early in Alberta every year medium and strong El Ninos have occurred in the Pacific Ocean.

Using information gathered by people such as Ezra Moss and Charles Bird on when key plants have bloomed in spring, Beaubien has charted the gradual shift of the

beginning of spring. Over the last 45 years, spring has arrived earlier by more than a week—good news for gardeners anxious to get their hands dirty.

Beaubien has been taking the biological pulse of the land for many years, and she's enlisting the help of hundreds of others to do the same. People across the province have joined an organization

Beaubien established called Plantwatch. In effect, students like those at Ronald Harvey School in St. Albert have become the "eyes of science", charting when flowering occurs in key species such as lilac, aspen, prairie crocus, saskatoon, western trillium, white trillium, purple saxifrage and white dryad. Hundreds of volunteers chart the flowering signs of spring as the green wave sweeps across the province.

Beaubien's work can be used by others. For example, greenhouse operators can more accurately time their planting. Historical data can help guide farmers in knowing when to seed their crops. Knowing when blooming plants are vulnerable to caterpillars can help foresters time spraying programs more precisely.

In Germany, about 2,500 observers are paid to keep their eyes open to the blooms of the natural world. That information is used by the country's agriculture officials to advise their farmers. "It's an old idea that's making comeback in Canada," says Beaubien, whose own sensitivity to the



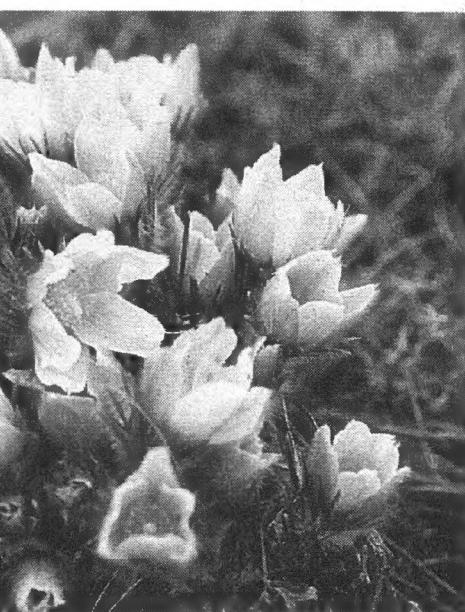
Students at Ronald Harvey School in St. Albert

natural world's rhythms was encouraged by her mother.

Charting that green south-to-north wave of spring also improves people's powers of observation. People learn that events in nature are linked and happen in sequences. And it's fun, says Beaubien.

Beaubien wants to encourage others to get involved in other provinces. A similar program in Nova Scotia is up and running, for example, and Ontarians are now collecting blooming data. She wants to compile and compare Royal Society of Canada phenological data gathered in Canada prior to 1923, and she's just putting the finishing touches on a "How to plant watch manual." And the project is going high-tech: a website is now developed to link people around the world. That comparative data may help detect trends or larger phenomena.

Meantime, Beaubien is hedging her bets just a little on the early spring she's predicted for '98. There's always the possibility, she says, that a giant arctic high-pressure system could slump south and frustrate gardeners across the province. ■



\$100 million and counting!

University Campaign on track and expected to exceed its \$144.65 million goal

By Michael Robb

folio

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University
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...it makes sense

A nursing student from rural Alberta received privately-funded scholarships that will cover her annual tuition costs for four years.

A physical education student from British Columbia—a member of the field hockey team—received a newly-established scholarship and, as a consequence, won't have to work. Good thing because between classes and practices, her time is precious. She wants to make the Canadian national team.

And an arts student from the Edmonton area is no longer agonizing over how she'll pay for her second year at the U of A—thanks to a scholarship she received from *The Edmonton Journal*.

Three students, three stories about how the U of A's fund-raising campaign is making a difference. Steadily, the money

now being raised for students, staff and facilities on the University of Alberta campus is being used to make the institution a better place.

Last Wednesday, people from on and off campus gathered at the Faculty Club to celebrate a significant milestone in the Campaign—reaching, and passing, the \$100 million mark. Donors, scholarship and bursary recipients and university administrators and fundraisers heard senior development officials express their satisfaction with the progress of the massive fundraising effort.

Late last December, donations to the five-year fund-raising campaign surpassed the \$100 million mark and is now at about \$110 million. The goal is to raise \$144.65 million: \$60.4 million for students, \$49.95 million for scholars and

\$34.43 million for facilities. According to Campaign co-chair Brian McNeill, the Campaign is on track and having a real impact on the campus. President Rod Fraser says the university will likely surpass its \$144.65 million goal.

More than \$8 million has been raised for graduate student scholarships and more than \$15 million has been raised for undergraduate scholarships and bursaries. "That has been particularly gratifying," says Dr. Terry Flannigan, associate vice-president (external affairs).

The fundraisers still have a lot of work to do, however. The Campaign's focus shifts from soliciting donations from national and international friends and corporate supporters of the University of Alberta to the alumni. That appeal gets under way in a few months. ■

Scotiabank donates \$1M to Faculty of Arts

Scotiabank has established a \$1 million endowment fund for Faculty of Arts bursaries and scholarships.

Announcing the gift Feb. 11, Peter Godsoe, Scotiabank chairman and CEO said the bank was delighted to provide support to the arts faculty. "By contributing to the liberal arts program, the bank is supporting a University of Alberta goal to encourage students to develop the critical thinking and communications skills Canada needs today and in the years ahead."

Scotiabank believes it is essential to encourage post-secondary institutions to develop centres of excellence to provide teaching and learning environments for Canada's leaders of tomorrow, he said.

"This country's greatest natural resource is its human resource—its intellectual capital," said Godsoe. "We must ensure that Canadian students have access to the best education, regardless of their means, and we must encourage the country's scholars by supporting the institutions that mold our future entrepreneurs and employees."

The donation will fund seven bursaries and 12 scholarships annually, ranging from \$1,500 to \$2,500. Bursaries will be awarded to students who require financial assistance and scholarships to those who demonstrate outstanding academic achievement.

Dr. Patricia Clements, dean of the Faculty of Arts, said, "The million dollar gift from Scotiabank is really an extra-

ordinary thing for students in the Faculty of Arts chiefly because of the number of students it will support and the way in which it will support them."

Clements says two bursaries will be awarded in March. "A year from now there will have been 26 awards, 10 years from now there will have been 180 and 25 years from now there will have been 544 students supported by this program," she said.

While the initial amounts are \$1,500 for bursaries and \$2,500 for scholarships, that will grow in six years to \$2,000 and \$3,000 respectively.

The program is also connected to a potential summer and permanent employment for students and grads. ■

When you go out in the woods today...

Do we have the heart and will to preserve Alberta's grizzly bear?

By Michael Robb

Powerful, graceful, beautiful, wild...and threatened. The experts agree: If we don't find ways to protect Alberta grizzly bears, their extinction is inevitable.

The trend is clear. In the 1940s, the Swan Hills were home to about 400 grizzlies. Today there are fewer than 80. In the southwest corner of the province, there are likely about 34. A century ago, there were hundreds. In 1985 there were about 1,200 in the entire province. Eleven years later there were likely about 800—some say only 500. And 200 of those live in national parks.

The best ecological data suggests that grizzly bear numbers are declining on a scale similar to the decline of Siberian tigers, says World Wildlife Fund spokesperson Peter Lee. And in national parks, scientists have found the mortality rate of sexually mature females so high, the species' survival is threatened.

Banff Bow Valley Task Force panelist Bob Page says the fragmentation of habitat has been devastating. In the lower 48 states, 98 per cent of the grizzly's natural habitat is gone. Transportation corridors in Canada's national parks are destroying grizzly habitat and the parks are no longer buffered by areas outside their boundaries. In the Berland, Wildhay-Little Smoky region, for example, the grizzly population is threatened by habitat deterioration, the encroachment of resource development activities and legal hunting. It's a deadly combination.

Experts at a recent panel discussion sponsored by the U of A's TransAlta Environmental Studies and Research Centre didn't have much to disagree about when they discussed causes of the decline. Sure, some told Alberta Fish and Game Association President Andy Von Busse that members of his organization should stop hunting grizzlies—at least as a necessary first step. And some panelists said the media wasn't doing enough to raise awareness about the threats facing grizzly bears.

But most experts, including Lee, say it's time to stop finger-pointing and work together. Hunters and fishers, vacationers and environmentalists share a love of grizzly bears, says Lee. But the fractured state of environmentalism is hindering people's ability to get the job done. "We need to tilt the balance and educate those who are uninformed or sitting on the fence."

Politicians likely aren't well informed about grizzlies, and have to rely on the best advice they can get, says Harold Carr, a manager for Alberta Environmental Protection. And that advice is often contradictory, says former MLA Les Young. "From the politician's point of view, you're always dealing with immense uncer-



The grizzly bear: A symbol to galvanize public opinion.

tainty. During my time in government we got a lot of conflicting advice."

Wildlife managers are also dealing with tremendous uncertainty, says renewable resources professor Dr. Luigi Morgantini. They simply don't have the resources to know what's out there. And even if they did, points out Young, there wouldn't be unanimity on "the facts."

Stakeholder processes are becoming extremely important, says Lee. But are they listened to and acted upon? Right now, there is a classic "use versus preservation" battle going on within Alberta Environmental Protection. The use culture is much bigger within the department than

the preservation culture, so when the minister is briefed, it's usually a compromised position that lands on his or her desk, says Lee. Furthermore, standing policy committees now make most major decisions. "That's a real problem in the way the government acts on environmental protection," he says.

Von Busse isn't willing to give up on the process, however. "The consultation process the government has been using has been for the most part positive. If you're not at the table, you won't likely get it your way," he says, noting that economic development has to be at the table when land use decisions are made.

Government has to balance competition for land use—forestry, oil and gas, recreation

and highways, explains Carr. All those have to be integrated with wildlife management.

There are a lot of ecological questions to be answered, says environmental economist Dr. Vic Adamowicz, but the social issues are central to the debate. Economic markets place values on coal and forestry, but there really aren't any parallel mechanisms to place value on other important activities, he says. Society has only begun to consider the value of recreation in the last decade.

Page says there are thousands of trucks that transport goods from Toronto to Vancouver, yet pay nothing for the use of the

roads through national parks—much less for the preservation of those parks.

In the longer term, say the experts, the grizzly bear's fate rests with people. People need to get their children out into the outdoors and have fun, says Lee. "Once you have fun, you'll be inclined to protect it. Solutions lie in recognizing what we value, articulating what we cherish and translating that into action." And changing public attitudes does happen, says wildlife biologist John Russell. For example, public attitudes about wolves have changed dramatically. They are no longer the villains once thought to be. ■

WHAT CAN YOU DO?

People are inventing new ways of factoring environmental values into decision-making processes, says Dr. Vic Adamowicz, a rural economy professor who studies environmental economics issues.

For example, students at the U of A have recently placed their names in the hat for the grizzly bear lottery hunting licenses. They have no intention of hunting the bears, should their names be chosen, they plan to pin the licenses to a bulletin board—one less bear killed.

In British Columbia stakeholder panels decide regional land use issues. When it works, says Adamowicz, it works well because people feel they have a say. In Switzerland, citizens use referenda to decide issues. Adamowicz says people

are also examining "values juries," impartial peers appointed to a board to hear evidence and make decisions. Locally, the Natural Resources Conservation Board is supposed to fulfil that role.

In Missouri, citizens can designate some of their tax dollars for environmental purposes. Affinity credit cards associated with environmental organizations, such as Ducks Unlimited, are also becoming popular.

None of these options is perfect, says Adamowicz, and nothing stops people from using the traditional political avenues. What is clear, says the professor, is that over the last 30 years people have increasingly realized that the non-market goods and values have to be factored into environmental decision making. And the market simply doesn't do that.

- People find ways to
- ascribe environmental
- value when markets
- can't, says
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Diabetes and Aboriginal Peoples

Looking at a new pathway to health

By Kathleen Thurber

Canada's First Nations people suffer adult-onset (Type II, Diabetes Mellitus) diabetes at more than four times the rate of the general population. It is thought this is the result of genes and the switch within a century from a physically rigorous existence to a sedentary western lifestyle with diets high in fat, sugar, and processed foods. The toll of unmanaged diabetes in Aboriginal populations is devastating. Unchecked diabetes can lead to amputation of limbs from blood vessel destruction, blindness, heart disease and diabetic comas. It is the major cause of death for Aboriginal women on reserves.

The very first step in diabetes management, that is, the standard educational program that delivers vital information to diabetics, is not as successful among Aboriginal people as it is with the general population. But an innovative program based at Edmonton's Royal Alexandra Hospital, developed by Aboriginal elders and medical staff, may help native diabetics live healthier lives.

The Aboriginal Diabetes Wellness Program is based on Aboriginal philosophy, spirituality and traditional foods combined with western medical practice. Dr. Don Voaklander, a U of A epidemiologist and Health Research Food recipient, is comparing the success of the Royal Alex-based program to the standard diabetes education sessions offered in the province. He explains, "Native attendance in standard programs has been very low. This could be because diabetes information delivery conflicts with one of the principal values of Aboriginal Peoples—non-interference. The general population is used to health information being directed to them by experts in a paternalistic manner. A feature of native culture is the individual's right to choose to partake of information. There is no explicit expectation of compliance."

Diabetic Aboriginals from all over Northern Alberta are guided by elders through a four-day program which includes counselling, talk circles, healing ceremonies, and diet management incorporating such traditional foods as bannock and wild game. Patients and their families stay at Anderson Hall on the Royal Alex grounds for the duration of the program. "Already this program has a high enrolment, which is a promising step towards long-term management of the disease," says Voaklander.

Long term diabetes management is crucial for reduced complications, improved health, and savings in health budgets.



Melanie Omeniho with Dr. Don Voaklander. Melanie Omeniho's family has been decimated by adult-onset diabetes. Several relatives have had limbs amputated because of complications of the disease, and others died in diabetic comas. Four years ago, Melanie was also diagnosed with diabetes. But her prospects for health are good, thanks to an innovative program at Edmonton's Royal Alexandra Hospital.

Voaklander's research follows patients for three months and six months after their participation in the Aboriginal Diabetes Wellness Program to measure management of blood sugar levels and the overall quality of life of the 150 participants. Comparative data gathered in southern Alberta will show

how Aboriginal diabetics are faring in standard programs in the province. If Voaklander's study shows the Aboriginal Diabetes Wellness Program has successful results, the information may help transform the way diabetes information is delivered to First Nations Canadians.

Dr. Voaklander is an epidemiologist with the Department of Public Health Sciences at the U of A. His research is supported by the Health Research Fund, administered by AHFMR on behalf of Alberta Health. ■

Pop goes Mao!

Maoist revolutionary songs soaring up China's Top 40 music charts

By Lucianna Ciccocioppo

Move over "Spice Girls." There's a whole other revolution going on. And it's happening in China.

It seems young people can't get enough of Chinese popular music. But don't expect any "Backstreet Boys" or Celine Dion wannabes singing their way up the music charts. The youth of China are snapping up cassettes and compact discs of traditional Maoist revolutionary music reworked as pop songs.

"The Red Sun" sold more than 5.8 million copies in China. And that's not including the pirated versions," says Dr. Mercedes Dujunco, a Killam post-doctoral Fellow in the Department of Music. This blockbuster hit prompted "The Red Sun, Volume 2" and then, you guessed it, a volume three. "There's even a reggae version," laughs Dujunco.

Dujunco is researching what she describes as the many contradictions in Chinese culture, much of which is manifested

in pop music. She links the rise of Maoist revolutionary pop songs to the increasing importation of Western cultural products in the consumer-hungry People's Republic of China.

"People are taking advantage of the market boom in China," says Dujunco, "but they want to be seen as taking a leftist approach, in case the government turns on them again." Indeed, the memories of Tiananmen Square linger.

Meanwhile, Mao Tse-tung is hot. He's hip, happening and everywhere. "The trappings of Maoist culture are very marketable," says Dujunco.

The "Great One" would probably roll over in his grave if he were around to see the rise of Mao memorabilia, says Dujunco, much of it occurring in cities like Beijing and Shanghai, and in Mao's home province of Hunan. She's seen gold and diamond-studded watches with Mao gracing the face. Picture Mao T-shirts and baseball caps, too.

And picture this: The ultimate in kitsch, says Dujunco, occurred in 1993 when the "King of Muzak," Richard Clayderman performed "The Reddest of Suns: Mao Tse-tung is Dearest to Me," in the Capital Stadium in Beijing.

How could this be happening? It's a question Dujunco often asks herself. While researching Chinese music and performance for her dissertation, Dujunco says she found a theme of nostalgia among people in the People's Republic of China. And she's continuing to research this theme in pop, folk and film music.

"So far, no one has replaced Mao as a model of socialist ideals ... there's an identity crisis," argues Dujunco. People are disillusioned because they are no better off than they were before Mao's cultural revolution. With cultural relics destroyed, Dujunco says the youth have no idea of pre-Revolutionary Chinese cul-

ture. And, as a result, they are searching for their roots.

Dujunco interestingly likens the Chinese Cultural Revolution to the Western counter-cultural experience in the 1960s. The Chinese, now in their forties, remember the time of their youth with nostalgia, despite the fact people suffered through bitter times and hardships. The Red Guards, for example, would have fond memories of their youth, says Dujunco.

And just like other social trends that come full circle between generations, this fascination with Mao, whether it be a return to his ideology or rather, a parody of it, is the basis for the young and old buying into this consumerism, says Dujunco.

"By glorifying Mao Tse-tung, they are putting down the present administration for selling out. It's basically a criticism of [former leader] Deng Xiaoping and the present administration." ■

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Trudi Lee Photography, Calgary. Used with permission from AHFMR.

It's not the questions, but the answers that scare me

Dr. Christopher Levan
Principal, St. Stephen's College

There is something seductive about the classroom debate. Who doesn't enjoy being the "expert," undaunted by even the most complex query? Barge-right-in-and-offer-my-opinion pride. Alas, in life there are some questions essential to ask but misguided to answer. Here's an example.

Picture this scene: A man is lying alone in a hospital bed, stricken by the grave illness of our age: AIDS. Even its mention strikes fear in most hearts. Death is imminent, and he looks for comfort and an-

swers: "Is God punishing me for my sins by giving me AIDS?"

Why do I say it is essential to ask that question, so vital to pry into such a dark mystery? Because we recognize that it is, above all, a cry of pain. More than playing with an intellectual riddle, this diseased patient is saying, "I hurt and I don't know where to turn." Most people are unable to contain profound despair. It is an essential part of the dance of living and dying that we express our anguish.

Besides an expression of pain, this question gives voice to a profound anguish over the termination of what was a great promise. Birth began the miracle. It makes no difference what has happened since. Death will put an end to it all. Was it my fault that it's all coming to a screeching halt? What did I do wrong?

Then there is the undercurrent of anger in the question of sickness being a penalty for past misdemeanors. "Why me? Am I that bad that I deserve this treatment?"

Disease is a betrayal, and through pointed questions, we can hear again the anger of innocent suffering. No one wants to disagree with the Force of the Universe, but it is essential to utter our complaint.

Finally, the question about sickness being punishment helps mortal beings recognize the sheer "giftedness" of life and to examine its delicacy. We all cling to existence by a slender thread. It is never ours to possess or control, since time will bring us all back to dust.

When we pretend sickness is acceptable or reasonable, we are deluding ourselves. Life begins when we name the unfairness—the injustice of sickness and death.

But (and this is an industrial strength "but"), it is dangerous to attempt to answer the question of sickness as punishment.

As the wise university lecturer knows, there are certain questions that, no matter how hard you try to answer them, will lead you astray.

In the first place, to attempt an answer to what is clearly a spiritual predicament is to presume that we are able to know the mind of God. Is it possible for finite creatures to comprehend the infinite to such a degree that we can explain the purposes of Divinity? Would anyone, except the very proud or the very foolish, make such a claim?

Answers are not always answers. Sometimes they are cowardice.

There was a rabbi who, having witnessed the holocaust of Auschwitz, escaped to return to his unbelieving home town. He came with many questions. "How could this happen?" "Has God forsaken us?" "Where is justice?" "Are we being chastised for our sins?"

The incredulous and frightened village folk came up with a host of satisfying answers. "We've been bad!" "God is testing us!" "God is preparing us!" Reassured by their own responses, they asked the rabbi to speak to God on their behalf, and this was his prayer:

"I pray to God to give me strength to ask the right questions."

Our world does not need more user friendly answers or cheap fixes to life's dismaying problems but help in exploring our questions with honesty and courage. ■

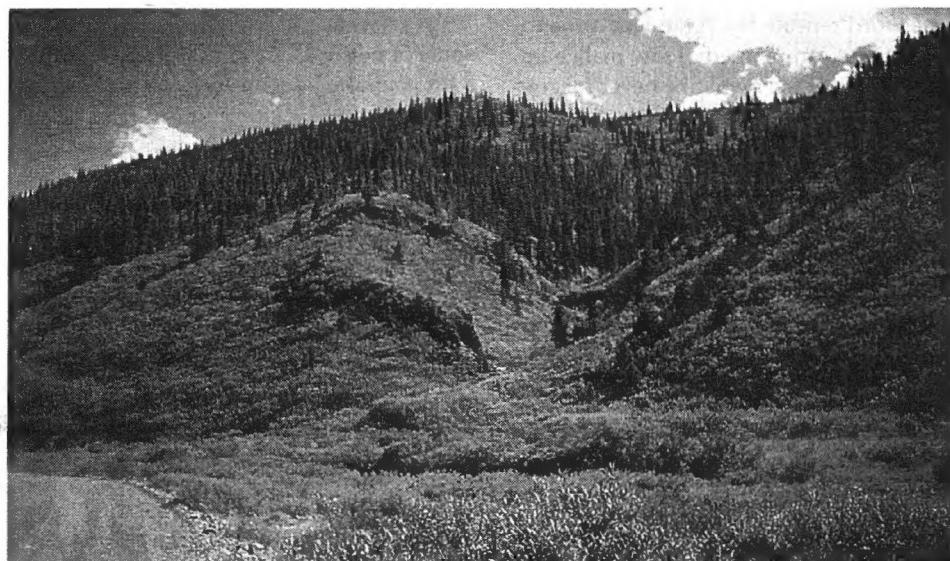
The delicate balance sheet of the Cheviot Mine project

By Dr. Dale Vitt, Director, Devonian Botanic Garden and Natalie Cleavitt, graduate student

What will we lose if the Cheviot Mine Project is approved?

It is not clear what we will lose because the information on cumulative effects of development in the area is not complete. We have the potential to lose a truly irreplaceable locale, which has been documented both for its unique geological history and its diverse animal and plant populations. Even the Alberta government acknowledged the value by including the area on the list of Special Places 2000. The Mountain Park area is a centre for rare plants including many rare and northern plants at the edge of their southern range, some found only at this one location in Alberta. Many of these plants are rare not only in the province, but also on a global scale.

For example, five plants all listed as threatened or rare in the province grow at one waterfall. One of these plants, *Mielichhoferia macrocarpa*, is known from only 13 sites in the world. This waterfall will be within 30 metres of the major road and railroad access and it will have a power line directly overhead. Will these cumulative effects destroy these populations of rare plants? Will the dust, road, electric lines, railroad and altered water quality affect these plants? No one knows! Are we willing to risk so much of Alberta's natural heritage?



What will we gain?

While it is not clear that Albertans as a whole stand to lose a great deal, the gains do not seem so pervasive. There will be coal exported to East Asia; a company that may make money; some local, short-term employment; and several very large holes that will be useful only for 'scuba diving practice.'

It is time that Albertans and our government realize the value (including economic value) of just leaving unique places such as this alone. Our 'boom' mentality must change to realize that Alberta's fu-

ture needs to include more than what is proposed for the Mountain Park area. The value of Mountain Park preserved in its natural state is worth far more than what will be gained by developing it as a coal mine. ■

appointments

C.W. Carry Professor in Steel Structures

The Faculty of Engineering and the Department of Civil and Environmental Engineering hosted a reception Tuesday, February 10, to formally announce the appointment of Dr. J.J. (Roger) Cheng as the C.W. Carry Professor in Steel Structures.

The C.W. Carry Chair in Steel Structures was established in 1994 by the Carry family in honor of Mr. C.W. (Bill) Carry. It is a fully endowed chair to recognize Mr. Carry's many significant achievements.

The objectives established for the chair are to advance, promote and enhance the use of steel in buildings, bridges and other structures. The chair serves to build the internationally recognized research pro-

gram in the Department of Civil and Environmental Engineering. In addition, there is a strong educational component involving undergraduate and graduate students as well as the engineering community beyond the university.

Dr. Cheng received his BSc in 1976, from the National Cheng-Kung University in Taiwan. He subsequently received MSc and PhD degrees from the University of Texas at Austin, in 1981 and 1984 respectively. He joined the Department of Civil and Environmental Engineering at the University of Alberta in 1984 as an assistant professor. He was promoted to associate professor in 1987, and to professor in 1995. Since 1984, Cheng has estab-

lished a productive research program. His research interests cover a broad range of topics including design and behavior of steel structures; cold-formed steel structures; structural stability; structural connections; fracture and fatigue; engineered wood products; advanced composite materials; rehabilitation of structures; and steel pipelines. He has more than 80 technical publications to his credit, and has supervised to completion, more than 20 graduate students, and is currently supervising, in some cases jointly, a total of 14 graduate students. In addition, he has established himself as an excellent teacher at both the undergraduate and graduate levels.

Beyond his research and teaching activities, Cheng has also been active on many technical committees. These activities include serving as chair of the CSCE Engineering Education Committee, as a member of three SSRC Task Groups, and as a member of the National Building Code of Canada Standing Committee on Structural Design.

Cheng is the second person to hold the position of C.W. Carry Professor in Steel Structures. He replaces Dr. G.L. Kulak, Professor Emeritus, Department of Civil and Environmental Engineering, who held the position since its inception in 1994. ■

Intense, blue-eyed prof changed Can lit forever

Watson remembered for sparking modernism in Canadian writing

By Lee Elliott

It is not difficult, she thought, to recall all the fine things which have been written about life. She could summon to witness Taylor's rose, Browne's flame, and Harvey's microcosmic sun, the palpitating radiance of the life-streak seen with the naked eye in the egg of a barnyard fowl. With inevitable logic her mind pursued the theme from generation to decay, for about death, too, fine things had been written. But death—short as the circuit between cradle and grave—presumed life; and the flame, however thin, must be lit before it can be blown out by the thousand unsuspected gusts noted by the compilers and annotators, and amassers of vital statistics within the universal bills of mortality.—Sheila Watson, Deep Hollow Creek

Sheila Watson wrote these words in the 1930s when she was a young teacher in the Cariboo living—like the protagonist of Deep Hollow Creek—in her own small cabin with a dog and a horse for company.

The manuscript lay in a desk drawer for more than 50 years—long past the publication of her “first” novel, *The Double Hook*, which shattered the Canadian realist literary tradition, shocking reviewers and inspiring a new generation of Canadian writers.

The *Globe and Mail* reviewer of May 16, 1959 called *The Double Hook* “obscure,” “eccentric,” and “difficult.” “It cannot be described as entertainment in any sense of the word.”

By 1998, her influence is evident in the works of leading Canadian writers like Michael Ondaatje and her books are standard texts in Canadian literature classes throughout the country. B.C. poet and fiction writer George Bowering calls the novel “a holy book for Canadian writers.”

Education faculty establishes partnership with Kenya

A visit by Faculty of Education staff to Moi University in November of 1997 resulted in Moi and the U of A signing a Memorandum of Understanding to confirm their shared interest in establishing a relationship to enhance the research, teaching, and community service of both institutions.

Dr. Gerard Kysela and Dr. Marilyn Assheton-Smith of the U of A visited Kenya in the fall, along with Dr. Issa Omari, of the University of Dar es Salaam. They travelled with funding from FSIDA and CIED to offer Moi academic staff a workshop on writing research proposals. That work arose out of a 1996 invitation by CIED for Dr. Wanjala Kerre of Moi to visit the U of A, when he was attending a UNESCO meeting in Ottawa with Dr. Toh Swee Hin of the Centre for International Education and Development.

Moi University is five hours west of Nairobi, close to the Ugandan border and near the town of Eldoret. There is a first class international airport there, only recently opened, but Kysela and Assheton-Smith journeyed from Nairobi to Eldoret by university vehicle, as is the usual pattern. The university's largest faculty is the Faculty of Education, but it has a number of other faculties including medicine, for-

Watson died February 1 at age 88 after breaking her hip in a fall at her home in Nanaimo B.C. As the Canadian literary community mourned her death, friends and colleagues remembered her time as a faculty member in the U of A English department from 1961 to 1975.

“She was a radical thinker,” says Dr. Patricia Clements, dean of arts. “She thought thoroughly unconventionally about texts and histories and social movements and all matters pertaining to writing.” Clements experienced Watson’s rigorous mind first hand as a student in one of her classes. “She was genuinely challenging,” says Clements. “She didn’t make it easy for the writer we were studying and she didn’t make it easy for the student.”

Dr. Bert Almon, a colleague in the English department, remembers Watson’s motto was “Teach hard, examine light.”

She began her teaching career by marking papers for her husband, poet Wilfred Watson, before she herself was faculty, says Almon. “She told me she would mark spelling errors whenever they appeared, even if the student had misspelled the same word repeatedly. A student came to Wilfred and complained: ‘I saw malice in every stroke of the pen.’ She never forgot that.”

She spent such an incredible amount of time and energy with her grad students, says Almon, that it’s directly responsible for her not writing more.

“She’d often make me late for dinner when she’d start talking, fixing me with those bright blue eyes,” he said. “She was very intense, very passionate, very Irish.” And very ahead of her time.



Sheila Watson

Rowland McMaster

“Robert Kroetsch used to say modernism came late to Canada with *The Double Hook*,” says Almon. “She was talking about things like structuralism before anyone here had even heard of them.”

Watson was so loved, he says, that some of her friends chipped in to buy her a fur coat after she’d caught pneumonia a couple of times. “I read somewhere once that she lived on coffee and cigarettes,” says Almon. “It was absolutely true.”

Watson completed her PhD thesis on Wyndham Lewis in 1965 under the supervision of Marshall McLuhan at the University of Toronto. Legend has it that a department chair there suggested she would need to be five times as good as a man. Her response: “Which man?”

From Toronto, she moved to Calgary and then Edmonton where Wilfred joined the U of A faculty. She sent the manuscript of *The Double Hook* to Dr. Frederick Salter who taught the U of A writing course at that time. He was skeptical of what he’d find in the writing of a “faculty wife,” says Almon. But couldn’t contain his excitement once he started reading. He championed the novel, helped with revisions and wrote the forward to the first edition. It hasn’t been out of print since.

While at the U of A, Watson co-founded, financed and co-edited the literary journal *white pelican*. In addition to her two novels, she published two collections of short stories, *Four Stories*, 1979, and *Five Stories* in 1984. ■



Kenyan students Nicholas Langot, educational psychology and Nelli Codore, educational administration

estry, arts and science, and engineering (technology).

The visit from U of A personnel came at a very busy time as not only was there a national election, which resulted in classes and exams being completed a week early, but December is the time for the annual university graduation ceremony. More than 2,000 students graduated in a colorful ceremony held in an open field somewhat like the U of A quad in its earlier (and larger) days. Students wore their gowns on the campus and in town for three days before the ceremony, with obvious delight and pride, and family and friends came from all around the northern part of Kenya to celebrate with the graduates.

Moi staff members from the Faculty of Education have attended the University of Alberta in the past to obtain higher education degrees. Three current Moi staff members are attending: Nelli Codore in educational psychology, and Zachariah Wanzare and Nicholas Langot in educational administration.

All three were present at the signing of the agreement by President Rod Fraser on February 4. ■

Department of Psychology loses outstanding colleague

Professor Frank Epling, Department of Psychology, died unexpectedly January 31, at age 54, while attending a conference of the Association of Behavior Analysis in San Francisco where he was to deliver the keynote address.

International recognition came to Professor Epling and his collaborator, Professor David Pierce, sociology, for their important theory of activity anorexia. Dr. Doug Wahlsten, a colleague in psychology, says Epling and Pierce observed that if rats run too vigorously in a wheel while having mildly restricted access to food, they lose their appetite and will die of starvation if not rescued. This result contradicted prevailing ideas about motivation. It took several years and much debate before the team began to put together an explanation. Using behaviorist methods to explore the factors regulating hunger, they integrated their findings with the Darwinian theory of evolution and modern neuroscience to explain their counter-intuitive result. Many cases of people labeled neurotic because of eating disorders are victims of activity anorexia, a fact that the medical profession is beginning to understand because of the pair’s many journal articles and their three ground-breaking books: *Activity Anorexia: Theory, Research and Treatment*; *Solving the Anorexia Puzzle: A scientific Approach*, and *Behavior Analysis and Learning*. Wahlsten places the theory

His family, students and colleagues will remember his insistence on deflating pomposity, challenging conventional wisdom, provoking argument, and, at times, fomenting rebellion.

of activity anorexia “among the foremost scientific achievements of our Department of Psychology.”

Possessed of an unusual talent for teaching as well as for research, Epling was named Outstanding Teacher of the Year in psychology last year. His effective and influential teaching touched thousands of students from those who worked with him as graduate assistants to those who attended his large introductory classes.

Epling accepted a joint appointment at the University of Alberta in 1977 in psychology and Student Counselling Services, moving to the department full time in 1991.

No recounting of professional facts and accomplishments, however distinguished, can capture the full impact of so large a personality. His family, students and colleagues will remember his insistence on deflating pomposity, challenging conventional wisdom, provoking argument, and, at times, fomenting rebellion. They will also remember the support he gave to them in their personal, academic and professional lives.

Professor Judy Cameron of the Department of Educational Psychology, Epling’s wife and sometime co-author, has established a memorial fund in his name to aid in the support of basic research at the university. Donations may be sent to the fund in care of the Development Office, Fourth Floor, Athabasca Hall. ■

And they call it puppy love...

Researcher ponders the experience of adolescent love

by Deborah Johnston

At first, Dr. Wendy Austin intended to study high-risk sexual behavior in young people. She wanted to know why—in spite of easy access to condoms and sex education—teenagers were not practicing safe sex. Why did they frequently risk pregnancy and disease? She wondered if it had something to do with their attitudes about death.

"My own kids were teenagers at the time when I started thinking about this study and just listening to them talk, I thought no: it's about love." In fact, Austin discovered the reason many teenagers become sexually active is because they believe they are "in love."

As a nurse, educator, and parent of teenaged children, Austin felt she needed to understand the lived experience of adolescent love. We teach them about sex and sexual health, she says, yet we avoid the sentimental, impractical subject of love. But kids want to learn about love, she insists. "This was movingly evident to me most recently when "young offenders" at a local psychiatric hospital asked that love be included as part of their teaching group on sexuality. It was what they most wanted to discuss... love... with all its

complexities—the joys, the jealousies, the elation, the sorrow—it is in their thoughts and their lives."

"It's such an important part of their life. If we're going to work with teenagers, we better understand that."

To really understand, Austin spent four years recording the recollections of individuals who were in love as adolescents. "I initially asked for 18 to 24 year olds but I received calls from older individuals who said, "I think you should hear my love story" and I included some of them." (Austin chose people who were already through the experience, rather than risk changing the experience for someone currently living it.) She also explored love as seen by psychologists, scholars and writers, and looked at popular movies and love songs. Finally, she reflected upon her own experience as a 13 year old secretly besotted with a neighborhood boy.

It was important to examine her own perspective on the 'phenomenon' of adolescent love, Austin says, to understand what might be influencing the way she

herself sees it. Using this phenomenological approach, she developed a description and interpretation of

adolescent love, identifying four major themes.

The first theme Austin observed repeatedly was what she described as *awakening*: the child anticipates and experiences the physical changes of puberty; becomes aware of sexual feelings; begins to desire physical and emotional intimacy with someone outside the family circle. This is the time when adolescents begin to prepare for a sexual encounter—many feel they need to learn how to put their arm around someone's shoulder, how to kiss. Austin discovered that many adolescent boys said they wanted to have their first sexual experience as fast as possible, "because it's like a rite of passage. They think they need to know how to do this."

—Dr. Wendy Austin,
associate professor in the
Faculty of Nursing

The second theme Austin identified as *falling*. "Where do we get this idea of falling?" she wondered, "people tell me about falling in love... falling, we are off balance, unstable, outside the ordinary flow of things." Adolescents described for her the physical experience of 'falling in love': sweaty palms, breathlessness, upset stomach—and the thrilling, inexplicable, emotional experience. One woman wrote, "It was love at first sight. I looked at him and said to myself, 'That's the man I'm going to marry.'"

The third theme Austin identified is *possessed*. Young lovers told her about how they would become consumed with thoughts of love. "They talked about being possessed or obsessed with this person, thinking about them all the time. They



Dr. Wendy Austin

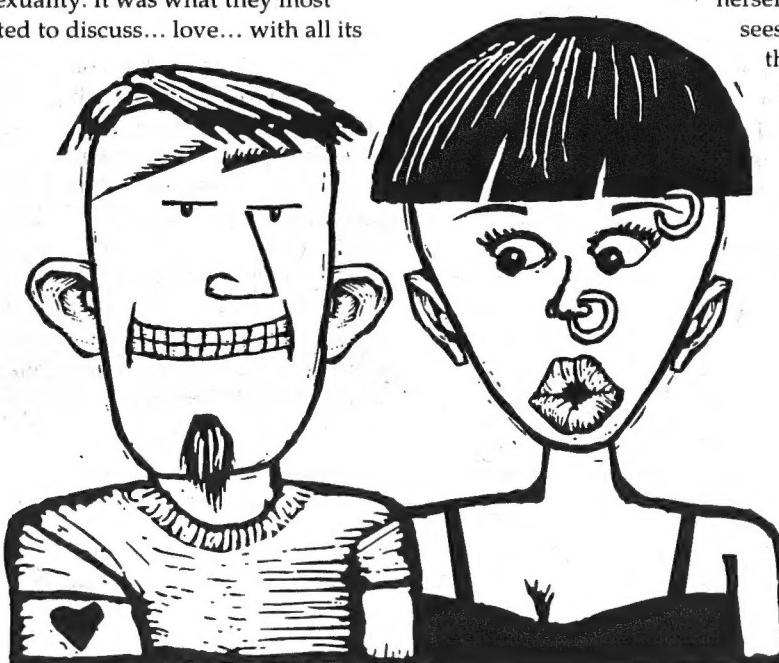
can't get them out of their head. And often they don't want this to happen, but they can't stop it."

Austin calls the fourth adolescent love theme *becoming*. "Loving another moves us toward our own possibilities. In partaking of the existence of another being, we are mysteriously more present to ourselves. We discover our own bodies in the touch of another. We see more clearly who we are and who we want to be in the eyes of this special person."

If we understand the adolescent love experience, Austin says, we may be better equipped to help our teenagers through love's joys and sorrows. It may even help us comprehend adult love.

"This [study] was really life-enhancing; it was fun to do," Austin says with a smile. The thing about researching love, she says, "you start seeing it everywhere—I started noticing the non-verbal interplay between teenagers—like how they were with one another in restaurants, on street corners, or sitting together. I'd even notice when teens seemed to be hiding feelings, by being silent or by hesitating to stand close."

Studying love, Austin says, brought the subject close to home. "I would be worried about studying hate. If you're studying hate, you're going to see hate everywhere. This was better!" ■



Survey shows part-time programs need overhaul

Open the doors (evenings and weekends)—and they will come

by Joyce Gariepy

The halls of higher learning have been open to part-time students for decades, but according to a report by Dr. David Keast and Roxanne Broadbent, special sessions, numbers of part-time students are declining and could continue to do so unless universities make changes.

Enrolments have fluctuated, to a major degree, with the economic climate of the community and the socio-characteristics of potential students. Throughout the 1980s and the first half of the 1990s, part-time students represented 38 per cent of all post-secondary students in Canada. A 10 per cent decline in part-time enrolment at the U of A in 1994 was part of a national trend. By 1996, the national average was 30 per cent. According Keast, principal researcher of the study, it's a trend that could continue. "The characteristics of today's potential students suggest part-time study programs currently offered in Canadian universities may require an overhaul," he says.

Universities will need to re-examine the needs of part-time students—educational and social, as well as the economic benefits versus the costs of completing a degree, he says. As well, institutions need to better understand how the needs of this group differ from those of fulltimers.

The survey found that most potential part-time students are employed and older than traditional collegians. As well,

- Adult students tend to have higher household expenses, may have childcare costs, and many need to make up for lost wages if they take time off work to attend classes.

- Females outnumber male part-time students almost two to one.
- Part-time learners would attend classes held evenings and weekends.

They are demanding consumers. In addition to wanting a selection of credit courses offered at convenient times, part-timers are concerned with general student services such as parking, campus safety, availability of academic services, and in particular, flexible course schedules to accommodate full-time jobs.

A primary issue among those surveyed by the research team was the limited availability of credit courses evenings and weekends. The average number of weekend courses offered by institutions surveyed was only 7.5. An average of 204

evening degree credit courses was offered.

If more evening and weekend classes were held, and "there is evidence that it could be done without increasing operating costs," says Keast, part-time enrollment in degree completion courses would undoubtedly increase.

A primary issue among those surveyed by the research team was the limited availability of credit courses evenings and weekends.

A surprise to the researchers was the "luke-warm" interest in computer teaching by potential part-time students. "No one would deny that technology-delivered courses, alternative delivery and distance education are here to stay," says Keast. Nevertheless, when surveyed "only quite small numbers" were interested in a computer-based curriculum and technology-based teaching.

"Overall, the numbers were lower than we expected." Keast says support for technology-delivered courses would be considerably higher among potential candidates for part-time study who work and reside in communities not within commuting distance of a university campus. In general,

he says, research indicates students will opt for physical interaction when it is convenient and choose "distance delivery methods" when it is not. "Just as each university has a distinct mission and its own particular strengths," says Keast, "each student population has different needs for course delivery."

The key to acceptance of any new system is support from the students themselves.

"only quite small numbers" were interested in a computer-based curriculum and technology-based teaching.

Much of the data compiled in the report Access to Part-Time University Studies is based on a survey of part-time undergraduates at the University of Alberta; former Faculty of Arts students who left university before completing the degree program and are eligible for readmission; and transfer students to university from Grant MacEwan Community College. ■



1998 Kaplan Awards

Accomplished poet puts his art first

By Michael Robb

A great many poets have had careers as university professors. It's one of the few ways they can make a living, says E.D. Blodgett, a professor of modern languages and comparative studies, and this year's recipient of the J Gordin Kaplan Award for Excellence in Research.

Blodgett says he's grateful for the indulgence of the institution—it's quite a feat. But over the years he's also been wary, careful always to detach himself from the large bureaucratic institution in order to protect his poetry. There is a danger, he says, that the poet within the university can become an "academic" or "intellectual" poet, one who parades knowledge. Blodgett hasn't let that happen.

His recent book of poetry,

Apostrophes: Woman at a Piano, placed Blodgett among Canada's finest poets today, earning the Governor General's Award for Poetry. Ted has made enormous contributions as a poet to Canadian letters, says Linda Hutcheon, a University of Toronto professor who has published widely

on Canadian literature, and is among the country's top literary scholars. "We have few more learned, complex, and yet accessible and moving writers in the country—just as we have few more accomplished researchers."

Blodgett's research has had an enormous impact on many fields of inquiry, says Russell Brown, a University of Toronto professor who first met his U of A colleague in the early '80s while co-editing a volume of criticism. "I was struck by the level of sophistication of the piece we received from Ted, as it was considerably in advance of the other pieces. At a time when Derridian deconstruction had not yet made inroads into Canada, Blodgett was the first critic I encountered to begin introducing these ideas into the Canadian

critical discourse—ideas that subsequently proved to have tremendous power in our field of inquiry."

Blodgett's critical scholarship is legendary among his peers. His rich knowledge of classical languages and cultures and the literary traditions

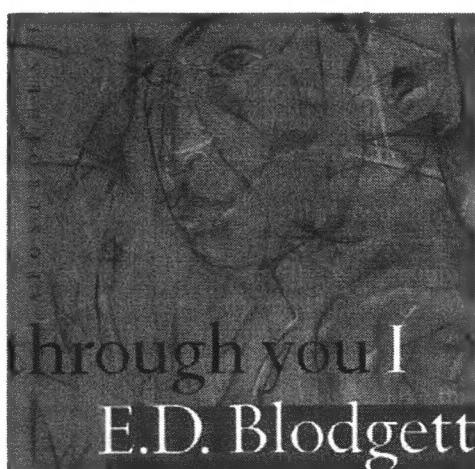
of English, French and German, along with a solid grasp of contemporary literary theory, are the basis of his criticism. Criticism and scholarship is all about elevating people's consciousness to a higher level of understanding what it is they're reading, he explains.

According to a former student, Linda Donnelly, Blodgett has an astonishing range of knowledge. "In having him as my thesis supervisor, I had an expert in Old French, a well-read professor of world literature, and a thoughtful poet, sensitive to the nuances of meaning in both ancient and modern languages," she told *Folio* earlier this week.

Donnelly first met Blodgett in the early '60s, as an undergraduate student in the honors English program. She took his course on Chaucer. "Word gets around pretty quickly," she says, explaining the fact that students knew a course from Blodgett would be essential and worthwhile.

In fact, Blodgett's work is touching students across the country. In one of Brown's graduate courses on Canadian criticism, for example, one of Blodgett's essays is required reading. "Despite this being an age of excess information, when I encounter one of Ted's essays on a subject that I am in any way interested in, it is one I immediately make time to read—and to think about," says Brown.

Blodgett has recently published the second book of poetry in the Apostrophes series, an exploration of friendships and love. He is completing a series of poems with Quebec poet Jacques Brault and has just finished a first draft of a history of literary histories of Canada and Quebec. On the last project, Hutcheon says, "I doubt if there were ever a moment in Canada's political history when we needed more the kind of critical examination he is undertaking of the kinds of literary self-construction in which we have indulged over the years." ■



Winning the war against Hepatitis B

By Lee Elliott

More than 5,000 people worldwide, infected with chronic Hepatitis B Virus (HBV), are sitting in the comfort of their own homes being treated with a simple pill.

It's all part of a phase III clinical trial of 3-thiacytidine (3TC or lamivudine). It's a drug developed through 10 years of research triggered by a conversation in the Faculty Club between Dr. Lorne Tyrrell, medicine, and Dr. Morris Robins, a chemist.

Today, Tyrrell, dean of the Faculty of Medicine, is receiving the 1998 J. Gordin Kaplan Award for Excellence in Research. And Robins, now a professor at Brigham Young University, continues to collaborate on the Hepatitis B research.

According to Dr. James R. Smiley, chair of the Department of Medical Microbiology and Immunology, Tyrrell's qualifications for the Kaplan Award are indisputable. "Dr. Tyrrell's research spans the range from lab bench to animal mod-

els and all the way to clinical trials and patient care," says Smiley. "He's moving his research from the hypothetical to the theoretical through to practical applications."

"It's been extremely satisfying to have our work cover that full range," says Tyrrell. From that first discussion of the chemistry, Tyrrell's lab adapted a cell culture system to test compounds for anti HBV activity. They then offered the first description of HBV resistant to 3TC and its molecular basis. From there, the lab set up duck and woodchuck hepatitis models, later used to test 3TC, and finally, through support from Glaxo Wellcome, the compound was developed commercially and tested on humans in clinical trials.

What this means is hope for the more than 300 to 350 million people worldwide who carry the virus. Two major complications of chronic HBV are cancer of the liver and cirrhosis. "We're hoping that early intervention will decrease the chances of complications," says Tyrrell. A spin-off benefit is that in those who require liver transplants, taking the drug before the transplant reduces chances of HBV infection carrying over to the new liver.

Many results of the phase III trial are already in," says Tyrrell. And "in 1998 the drug is almost certain to be licensed in South East Asia." By 1999, the drug should be licensed in Europe and North America.

In the meantime, several other drug companies are rushing to develop their own HBV-fighting compounds. That's a welcome development, says Tyrrell. "The problem with any chronic infection is that

when you use monotherapy, just one drug, the virus mutates." While the other companies are still several years behind, he says, their work is needed. "I see this drug as the first one of a number used in the treatment of Hepatitis B... We have patented other compounds for the treatment of Hepatitis B as well."

"There have been many happy days in the research," says Tyrrell, but two stand out. "The day I saw the activity of the antiviral agent—and the second day was when we gave the drug to the first patient and saw that they responded."

But the compound 3TC isn't the most important result of the research, says Tyrrell. Along the way his team has discovered it's more difficult to get rid of the virus in some organs than others—the liver and spleen, for instance. They've also learned about the rate at which the virus mutates and that the mutations affect how strong the virus is. They've even discovered other effective compounds, some that work on mutations resistant to Lamivudine. ■



Dr. Lorne Tyrrell

- Dr. Lorne Tyrrell was the first to bring industry into U of A research.
- Glaxo Canada supported the development of the Glaxo Heritage Research Institute and committed \$15 million over 10 years to support its research.
- Tyrrell received the Province of Alberta ASTech Award for Innovation in Science in 1993.

»quick »facts

New wheelchair design has Timothy smiling

U of A engineering and Glenrose Rehabilitation Hospital project produces unique prototype for children with disabilities

By Lucianna Ciccocioppo

Little Timothy Kibblewhite flashed a smile that lit up the entire playroom when he saw the new wheelchair. Not only was it painted red, his favorite color, it would allow him to stretch his legs and stand up in it.

That's important for someone like six-year-old Timothy, who was born with spina bifida. Because his lower spine did not develop properly, Timothy has no feelings from the hips down and no muscles from the knees down. He does have some control between his hips and knees and can move around short distances with the help of braces and canes. And during the school day, Timothy wheels himself around in a regular wheelchair.

Never one to get frustrated about his disability, Timothy was nevertheless excited to try out the unique features of the Ergostand. "This is great," smiled the tot as he peered over his shoulder into a nearby mirror. "I feel really comfortable." Off he wheeled around the room, stopping periodically to move up and down with glee in the wheelchair.

"Getting him up and weight-bearing is incredibly important," said his mother, Lorraine Kibblewhite. "They have to get up and use their legs, or they lose them. This gives them an advantage."

Kibblewhite said Timothy received a regular wheelchair in September, providing him with mobility minus the exhaustion of holding himself up with canes. They were pleased to volunteer for the project when they were told about it. She said a device like the Ergostand will bring Timothy that much closer to integrating with his peers.

"The big thing is, especially in school, there are so many activities at full height. And Timothy can't reach them in a wheelchair. So, this makes a big difference," said Kibblewhite.

The wheelchair is a prototype of a design created last year by U of A mechanical engineering students as part of their final-year project. Course co-ordinators Dr. Dave Budney and Dr. Ken Fyfe got the idea from physical therapists at the Glenrose Rehabilitation Hospital, who consulted with the students:



At the end of the year, the Ergostand, designed by Michael Hawryluk, Scott Lang, Kelly Pidsadowski and Ryan Smith, was selected the winner.

The project was a definite challenge.

- The Ergostand is unique because children can independently rise to an assisted-standing position from the wheelchair and push it while either sitting or standing.
- Children with disabilities such as spina bifida, cerebral palsy, muscular dystrophy and spinal cord injuries, and who can manually operate a wheelchair, can benefit from the Ergostand.
- The Ergostand was designed by U of A mechanical engineering students Michael Hawryluk, Scott Lang, Kelly Pidsadowski and Ryan Smith in partnership with Glenrose Rehabilitation Hospital physical therapists Pat Tenove and Gayatri Kembavi, and orthotist Melanie Olin.
- Student Marc Rouleau built the prototype last summer specifically for Timothy Kibblewhite, and when it's fine-tuned, Timothy can take it home.

»quick »facts

Pat Tenove, one of the physical therapists involved, came up with a wish list of specifications for a pediatric wheelchair that would allow children to independently rise to an assisted-standing position. Tenove and her colleagues wanted a wheelchair for manual users, one that was stable and could be pushed in either a sit or stand position. It had to be lightweight and adjustable for children as they age, easy to transport and cost under \$3,000.

Traditionally, people with disabilities only had the option of using wheelchairs or a stand called a parapodium with a smooth platform base, leg straps and knee support. They would need assistance to set themselves up and given the time, effort and money for these frames, they were frequently left unused.

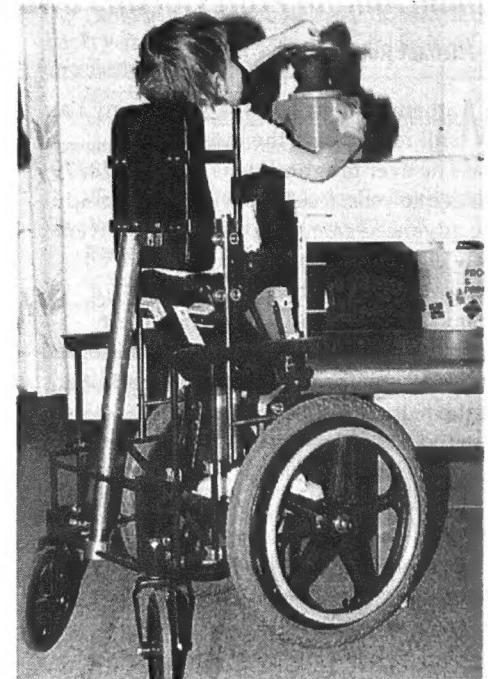
However, standing is vital for the health and social integration of children with disabilities. Standing promotes better bone and muscle strength, improves the urinary system and provides a respite from painful pressure sores for people in wheelchairs. Important psychological benefits include the ability to hug a loved one, talk eye to eye with peers and reach desks and shelves.

Fyfe said they selected this challenge because they wanted a project that was more than a concept. "It was something you can feel, see and see work. Plus, potentially, it was a benefit to kids and they could get some rehabilitation," said Fyfe.

Timothy and his mom weren't the only ones who were pleased. Marc Rouleau, who built the prototype after the creators graduated and found jobs, says he "spent quite a few hours over the summer with no money" putting it together. The mechanical engineering student said it was a gratifying experience.

"For us, it was proof of the concept, that it can be done," says Rouleau. "I feel pretty good about it and I hope he can use it for the rest of his life."

Donations from the Spina Bifida Association, the Edmonton Rotary Club and the Faculty of Engineering's dean's office covered the costs to build the prototype, which still needs some fine-tuning. Levers need to be added so Timothy



Tina Chang

can push it while standing, and the chair back doesn't straighten smoothly. Fyfe said Timothy should be able to use it in about two months.

While there are other wheelchairs currently available on the market, none have all the features of the Ergostand. And if a wheelchair manufacturer can be found to produce the Ergostand, more children like Timothy, and perhaps one day adults, can benefit from a group of U of A students putting their heads together in a challenging project.

Meanwhile, Timothy Kibblewhite already knows what he'll do when his shiny, red Ergostand is ready: practice shooting hoops so he can one day be a wheelchair-basketball star. ■



Smart City coalition calling for nominations

Six awards to recognize Edmonton-based businesses, organizations and individuals

By Lucianna Ciccocioppo

Edmonton's Smart City committee is gearing up for its first annual Smart City Awards and Luncheon and is looking for nominations. The awards are based on the criteria of what makes Edmonton a "Smart City," a designation given by the *Globe and Mail's* Report on Business several years ago. Businesses, organizations, educational institutions and individuals can be nominated for the Workforce Quality, Research and Technology, Innovative Teaching, Educational Partnership, Quality of Life and Smart Business awards.

A Smart City is defined as one with a highly skilled workforce, a close relationship to a research-intensive university, close partnerships among the business, education and government sectors, numerous high-technology companies and an enhanced quality of life with a vibrant cultural and continuing education scene.

The University of Alberta, therefore, plays an integral role in Edmonton's vision to build on this Smart City designation.

tion, and as such, is a partner in the coalition. The Edmonton: A Smart City initiative was kicked off last November to contribute to the economic prosperity of Edmonton and to encourage people to become involved in lifelong learning.

Partners include: Edmonton Chamber of Commerce, Economic Development Edmonton, Edmonton Public Schools, Edmonton Catholic Schools, Grant MacEwan Community College, NAIT, Athabasca University, Concordia University College, King's University College, Edmonton Arts Council and area businesses.

Nominations can be made by any two people or organizations from the greater Edmonton region. The Office of Public Affairs has nomination forms and the deadline for their receipt at the Edmonton Arts Council is February 27.

The Smart City Award and Luncheon takes place Wednesday, April 8, 1998. For more information, contact Jayne Jeneroux at 429-8043 or visit the website at www.smartcity.edmonton.ab.ca. ■

1998 SMART CITY AWARDS

- **Workforce Quality Award:** Recognizes a business or organization that has encouraged employees to pursue continuing education and learning, and/or provided employees with opportunities for continuing education and training.
- **Research and Technology Award:** For a business, organization or individual that has introduced a new product or service, or further developed an existing one to successful commercialization or economic development, as a result of research and development activities.
- **Innovative Teaching Award:** Honors an education institution that has incorporated or developed new learning methods or leading edge technology to enhance the learning experience for students.
- **Educational Partnership Award:** Recognizes a business or organization that has distinctively shown support for an educational institution or education in general.
- **Quality of Life Award:** For an individual or organization that has significantly enhanced the quality of life in Edmonton through the

a smart city

EDMONTON

development and implementation of cultural, recreational or sporting activities, or facilities for these uses.

• **Smart Business Award:** All finalists in each of the categories will automatically qualify for the sixth award, which is the highest distinction. It recognizes that learning is key to continuous improvement, a strong and healthy workforce and a successful economy. The recipient can be a business, organization or individual.

• For nomination forms, call: Cora Doucette, Public Affairs, 492-2325

• For Smart City Awards and Luncheon information, contact Jayne Jeneroux at 429-8043

• www.smartcity.edmonton.ab.ca

»quick »facts

Anthony Lau: dedicated to teaching at students' level

Killam Annual Professorship awarded to mathematician

By Michael Robb

Mathematics professor Dr. Anthony Lau still remembers the most amazing class he ever taught. It was in the 1978/79 academic year, a second-year undergraduate advanced calculus course. There were only eight students—and they were all exceptionally bright. Lau kept track of them. "Seven eventually earned their PhDs and the eighth could have, but opted not to," explains Lau, the recent recipient of the Killam Annual Professorship.

Those students scattered, each pursuing graduate work at prestigious institutions across North America. Two of them eventually landed academic jobs at the U of A, physics professor Dr. Mark Freeman and mathematics professor Dr. Byron Schmuland.

Not all Lau's students have gone on to do graduate work, but many, to be sure, have gone on to careers in fields as diverse as engineering, business, pharmacy and agriculture, well versed in algebra and calculus. Many have benefited from Lau's rigorous, thorough and understanding approach to teaching complex mathematics. Freeman remembers Lau as a terrific teacher, kind, patient and generous with his time.

"Teaching students at their level is very important," says Lau, who taught other students at the University of British Columbia while he himself was a student in the mid-1960s. "As a tutor I would teach students who weren't gifted at mathematics. I learned how to explain complex concepts to students so they would understand them."

That sensitive approach to teaching has earned the soft-spoken mathematics professor the Faculty of Science's top teaching award and the Rutherford Award for Excellence in Undergraduate Teaching. His colleagues have also benefited from his dedication to teaching. Lau served on the department's teaching committee, helped establish a teaching mentor program for junior staff, served as mentor for colleagues and graduate students and is now involved in the University Teaching Service's mentor program.

During his long career at the U of A, he's conducted research in an area he is the first to admit isn't easily understandable to most people. He's made significant contributions in harmonic analysis on groups and semigroups using tools from analysis, algebra and representation theory. "It's pure math," he explains, and it may not have immediate applications. "We're a little like artists who paint what they like to paint, as opposed to commercial artists who paint for a purpose."

That pure work has over the years been backed by the Natural Sciences and Engineering Research Council and often published in strong and respectable journals. He's now working with colleagues around the globe backed by a NATO collaborative grant.

Lau's work is also finding its way into the classrooms of those he once taught. Two of those former students recently received teaching awards at the universities where they teach. ■



Dr. Anthony Lau: one of the U of A's strongest teachers

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laurels

Award allows Schaeffer to take on the game of poker

Dr. Jonathan Schaeffer has been awarded one of Canada's top research awards—the 1998 E.W.R. Steacie Memorial Fellowship from the Natural Sciences and Engineering Research Council of Canada (NSERC).

NSERC President Dr. Thomas A. Brzustowski said, "Dr. Schaeffer's invention of the checker-playing program Chinook was a milestone in artificial intelligence and a Canadian triumph. With modest resources, he created the first program to defeat the human world champion in a non-trivial game—an achievement that rivals the impact of IBM Deep Blue's later defeat of Garry Kasparov. But the greatest part of that achievement, of course, is what was learned in the process."

The study of games has been at the centre of artificial intelligence research since the field came into existence in the 1950's, and has become a major tool helping computers solve increasingly difficult and complex problems. According to U.S. computer scientist D. Richard E. Korf, games provide such a fertile and profound laboratory for the study of intelligent behavior because they are

simpler than many real-world problems and the available information, the available actions, their outcomes and the overall goals are well defined. This fundamental simplification, "says Korf, is the key to progress in most areas of science and engineering.

Schaeffer's early successes in computer game playing came in the mid-1980s when his chess program Phoenix tied for first place in the World Computer Chess Championships. He is widely recognized for pioneering the use of parallel computing in games. In addition, he has made significant contributions to the theory of search. Algorithms based on his research can be used to simplify very complicated sets of research instructions and arrive at answers. This advance has been widely applied both in artificial intelligence research and computer software. In 1996, he published One Jump Ahead, a popular book on his quest to build his historic checker-playing program.

The Steacie Fellowship will permit him to turn his efforts to poker and Sokoban—two games largely ignored by artificial intelligence researchers. ■

Elliott awarded NSERC Doctoral Prize

Dr. Janet Elliott, assistant professor in chemical and materials engineering, has been awarded one of four 1998 NSERC Doctoral Prizes. In the citation for the award, it's noted that "Dr. Elliott's thesis has been described as a landmark in the prediction of how gases interact with metal surfaces and a major step toward establishing a general theory of molecular kinetics for surface

scientists. Although there is a wealth of empirical knowledge of gas-solid interactions, until her study there had been a dearth of theoretical insight into the phenomena. Dr. Elliott's findings are expected to speed the development of new corrosion- and fracture-resistant materials, as well as improved catalysts and metal oxide semiconductors." ■

Kresta honored for early achievements

Dr. Suzanne Kresta has been awarded the 1998 APEGGA Early Accomplishment Award. APEGGA is the professional association of engineers and geologists and geophysicists. This prize is given annually to an APEGGA member in recognition of exceptional achievement in the early years of their professional career.

Kresta joined the Department of Chemical Engineering in 1992 and is currently associate chair of the department.

While carrying a full teaching load, Kresta has built a world-recognized research laboratory in chemical mixing. She has also been honored twice with the Engineering Undergraduate Teaching Award. ■

CELEBRATE 90 and WIN!

Return this entry to Public Affairs, 400 Athabasca Hall by Friday, February 27 and you could win two tickets to the Edmonton Symphony Orchestra's Magnificent Master Series performance with the Canadian Brass on Sunday, March 9 at 2 p.m.

Name: _____

Office Phone: _____

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E-mail: _____

Skill testing question: What is the official name of the "Butterdome"?

- Rick Hanson Centre World Games Legacy Centre
 Games Fieldhouse Universiade Pavilion

Congratulations to Marion McFall (Graphic Design Services) who won tickets for two to hear Mark Zeltser, piano, on February 20.



Edmonton
Symphony
Orchestra



talks

Submit talks to Tamie Heisler by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at public.affairs@ualberta.ca.

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH AND MEDICINE AND ORAL HEALTH SCIENCES

February 23, 10 a.m.

Xuaxi Xu, Postdoctoral Associate, The Rockefeller University, New York, NY, "Cell Biology of Alzheimer's B-Amyloid Protein: Regulation by Protein Phosphorylation and Estrogen in Neurons and Cell-free Systems." Presented by Cell Biology and Anatomy. 5-10 Medical Sciences Building.

February 25, noon

Wendy Robinson, Assistant Professor, Department of Medical Genetics, University of British Columbia, "Origin of Mosaic and Non-Mosaic Trisomy in Humans." 207 Heritage Medical Research Centre.

March 5, 10 a.m.

Jialing Lin, Postdoctoral Research Associate, Department of Medical Biochemistry and Genetics, Texas A&M University of Health Science Center, College Station, Texas, "Membrane Protein Integration: A Complex Multistep Process Revealed by Fluorescence and Photocross-Linking Studies." Presented by Cell Biology and Anatomy. 5-10 Medical Sciences Building.

ASSOCIATION OF PROFESSORS EMERITI

February 26, 7 p.m.

David W. Schindler, Killam Professor, "A Dim Future for the Boreal Regions." Emeritus House, 11034 - 89 Avenue.

BIOLOGICAL SCIENCES

February 23, 3 p.m.

Colleen Cassady St. Clair, Department of Biology, University of Northern British Columbia, "Behavioural Ecology as an Emerging Tool in Conservation Biology." M-149 Biological Sciences Centre.

February 27, noon

Mark Dale, "The Hole in Lacunarity Analysis." M-229 Biological Sciences Centre.

February 27, 4 p.m.

Verena Tunnecliffe, Department of Biology, University of Victoria, "Species Distributions at Hydrothermal Vent Communities of the Deep-Sea." M-145 Biological Sciences Centre.

March 6, noon

Bill Donahue, "Interactive Physical, Chemical and Biological Responses to Solar Ultraviolet Radiation in Boreal Lakes and Streams." M-229 Biological Sciences Centre.

ENVIRONMENTAL BIOLOGY AND ECOLOGY

February 25, 2 p.m.

Shima D. Blakney, "Diatoms as Indicators of Eutrophication in Lakes; Pine Lake, Alberta: A Case Study." M-149 Biological Sciences Centre.

February 25, 3 p.m.

Aileen D. Rhodes, "The Palaeoclimatic History of Pine Lake, Alberta." M-149 Biological Sciences Centre.

March 3, noon

Troy C. Sorensen, "Tropical Dry Forest Regeneration and its Influence on Three Species of Costa Rican Monkeys." M-141 Biological Sciences Centre.

MOLECULAR BIOLOGY AND GENETICS RESEARCH GROUP

March 6, 4 p.m.

Douglas Muench, Biological Sciences, University of Calgary, "Which Way to the ER? mRNA Localization in Rice Endosperm." G-116 Biological Sciences Centre.

CANADIAN FEDERATION OF UNIVERSITY WOMEN (EDMONTON)

February 23, 7 p.m.

Claudette Tardif, "Multilingual Education and Globalization." All University women graduates are welcome. Information: 430-5383. Faculty Club.

CANADIAN INSTITUTE OF UKRAINIAN STUDIES

February 23, 3:30 p.m.

Darusia Antoniuk, "Writing on Afghanistan: The War Stories of Iurii Andrukhovich and Oleg Ermakov." 352 Athabasca Hall.

March 2, 3:30 p.m.

Vladyslav Verstiuk, Institute of Ukrainian History, National Academy of Sciences of Ukraine, "Conceptual Principles for the Study of the History of the Ukrainian Revolution" (in Ukrainian). 352 Athabasca Hall.

CENTRE FOR GERONTOLOGY

February 23, 7:30 p.m.

Jan McElhaney, Risk Management Clinic for the Elderly, "Pain Management in Seniors: Understanding Pathways to Healing." 2-07 Corbett Hall.

CENTRE FOR RESEARCH IN APPLIED MEASUREMENT AND EVALUATION

February 25, noon

Bruno Zumbo, Professor of Psychology and Mathematics, University of Northern British Columbia, "New Approaches to Variable Ordering in Statistical Models." 3-119 Education North.

CENTRE FOR RESEARCH FOR TEACHER EDUCATION AND DEVELOPMENT

February 24, 12:30 p.m.

Ray Benton-Evans, "Charter Schools and Public Education—An Ambiguous Union." 633 Education South.

COMPUTING SCIENCE

March 2, 3:30 p.m.

Franz Leberl, Chief Executive Officer, the Austrian Research Center, Seibersdorf, Austria, "Research into the Creation and Application of 3-D Cyber Cities." Room 112 V-Wing.

ENGLISH

February 27, 3 p.m.

Steven Shaviro, University of Washington, Seattle, "Intrusions." L-2 Humanities Centre.

ENVIRONMENTAL RESEARCH AND STUDIES CENTRE

February 25, 4 p.m.

Ray Rasmussen, "Politics of the Environment and Personal Action." TL-12 Tory Lecture Theatre.

March 4, 4 p.m.

Guy Swinnerton, "Protected Landscapes"—An Alternative to Traditional National Parks: The British Experience." TL-12 Tory Lecture Theatre.

FACULTÉ SAINT-JEAN

2 mars, 19h30

Robert Richard, Auteur de "le roman de Johnny". Anciennement à l'université d'Ottawa et au Conseil des Arts, "L'écriture du roman: aspects baroques et anti-langue." À la Faculté Saint-Jean, local 1-01.

FACULTY OF ARTS AND UNIVERSITY LIBRARIES

February 27, 3 p.m.

James Neal, Director of Johns Hopkins University Library, "Musings on the Epistemology of Scholarly Communication." L-1 Humanities Centre. The second in the series Alexandria Quartet: Four Lectures on the Future of Academic Libraries. Note: Johns Hopkins University Press publishes 43 electronic journals, Project MUSE, which are subscribed to on-line by the U of A Libraries. For demonstrations on a drop-in basis, visit the Data Library, Rutherford North, 1st Floor, 11 a.m. to 2:30 p.m.; 4 to 5 p.m.

INTERNATIONAL INSTITUTE FOR QUALITATIVE METHODOLOGY WORKSHOP

February 26 to March 17 (Tuesdays and Thursdays, 6 to 9 p.m., Saturdays, 9 a.m. to 4 p.m.)

Jan Morse, "Topics in Qualitative Methods." Phone 492-8778 to register or visit their website at <http://www.ualberta.ca/~iitm/> for additional information.

JOHN DOSSETOR HEALTH ETHICS CENTRE

February 26, 3:30 p.m.

Richard Fraser, QC, Cook Duke Cox, "Re-inventing Self-Interest." 2nd Floor Library, Aberhart Centre Two, 8220 - 114 Street.

PHILOSOPHY

March 6, 3:30 p.m.

Nick Griffin, Department of Philosophy, McMaster University, "Dummett on Analytic Philosophy." L-2 Humanities Centre.

PHYSIOLOGY

February 27, 3:30 p.m.

Keir Pearson, "Adaptive Plasticity in the Walking System of Mammals." 207 Heritage Medical Research Centre.

POLITICAL SCIENCE

February 26, 3:30 p.m.

Malinda Smith, "Race(ing) the Millennium: On Racial Borders, Territories and Identities." 10-4 Tory Building.

March 5, 3:30 p.m.

Joyce Green, "Canaries in the Mines of Citizenship." 10-4 Tory Building.

PUBLIC HEALTH SCIENCES

March 4, noon

Manny Papa Dimitropoulos, Head of Health Economics, Eli Lily, "Economic Implications of Hip Fractures." 2F1.04 Mackenzie Health Sciences Centre.

RENEWABLE RESOURCES

February 26, 12:30 p.m.

Robert Grant, "Carbon and Water Transfers in a Boreal Aspen Forest: Mathematical Modeling and Field Testing." 2-36 Earth Sciences Building.

March 5, 12:30 p.m.

Julia Foght, "Is Bioremediation of Hydrocarbons Possible in Extreme Environments? A Microbiologist's Adventure in Antarctica." 2-36 Earth Sciences Building.

ROMAN CATHOLIC CAMPUS MINISTRY AND UNITED CHURCH CAMPUS MINISTRY

March 5, 12:30 p.m.

Debate—"The Latimer Decision was moral and just." Mary Lou Cranston and Chris Levan. Meditation Room, SUB.

UNIVERSITY OF ALBERTA CHAPTER SOCIETY OF THE SIGMA XI

February 25, 7:30 p.m.

Michael Brett, "Microtechnology: Fabrication and Potential Applications of Microengineered Materials." 2-35 Corbett Hall.

UNIVERSITY TEACHING SERVICES

February 23, noon

Judith Blanchette, "Computer-Mediated Instruction: Is It for You?" 219 CAB.

February 23, 4 p.m.

Carolin Kreber, "Teaching Styles and Learning Styles." 273 CAB.

February 24, 3:30 p.m.

Marion Vasahlo and Brenda Jones and Kumarie Achaibar-Morrison, "Diversity in the Classroom: Implications for Educational Practices." 281 CAB.

February 25, 3:30 p.m.

Andrew Pemberton-Piggott, "The First Class: Information and Engagement." 281 CAB.

February 26, 3:30 p.m.

Jim Newton, "Conflicts with No Losers." 281 CAB. March 2, 3:30 p.m.

Chris Hackett and Bob Hesketh, "CD-ROM Textbooks Versus Print Textbooks." 231 Civil-Electrical Engineering Building.

March 3, 3:30 p.m.

Janet Smith and Lois Stanford, "Establishing Boundaries in the Classroom." 219 CAB.

March 4, 3 p.m.

Wendy Austin, "Psyche's Tasks: Finding Ways to Care for Oneself in the Workplace." 219 CAB.

March 5, 3:30 p.m.

Graham Fishburne, "Five Things to Remember When Planning to Teach: Part I." 281 CAB.

WISEST AND THE EMPLOYMENT EQUITY DISCRETIONARY FUND

February 25, 5 p.m.

Elisabeth Dixon, Environmental Science Program, Department of Chemistry, University of Calgary, "Stereotypical Gender-Related Aptitudes—Myth or Reality?" E3-25 Chemistry Building.

events

EXHIBITIONS

FAB GALLERY

Until March 1

"Cezary Gajewski"—this exhibition is the final visual presentation in partial fulfillment for the degree of Master of Fine Arts in Sculpture.

Until March 1

"Living with Contradictions"—Eric Wynn Butterworth, MFA Painting. Gallery hours: Tuesday to Friday, 10 a.m. to 5 p.m.; Sunday, 2 to 5 p.m.; closed on Saturday, Monday and statutory holidays. 1-1 Fine Arts Building.

MCMULLEN GALLERY

Until March 2

"Magic Myth and Make-Believe"—an exhibition of the work of twelve local artists in a variety of media. Gallery hours: Monday to Friday, 10 a.m. to 4 p.m.; Sunday, 1 to 4 p.m.; Tuesday, Wednesday, Thursday, 5 to 8 p.m. (subject to availability of volunteers). Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

MUSIC

DEPARTMENT OF MUSIC

February 23, noon

Noon-Hour Organ Recital. Convocation Hall.

February 24, 3 p.m.

Saxophone Masterclass with Jean-Michel Gouri. Admission: \$10 at the door. Location to be announced.

February 24, 8 p.m.

Visiting Artists Recital: Jean-Michel Gouri, saxophone, and Yves Josset, piano. Admission: \$15/adult, \$10/senior/student. Convocation Hall.

February 28, 8 p.m.

Visiting Artists Recital: Francine Kay, piano. Admission: \$15/adult, \$10/senior/student. Co-sponsored with Canadian Music Competition. Convocation Hall.

March 1, 3 p.m.

Piano Masterclass with Francine Kay. Convocation Hall.

March 2, 12:10 p.m.

Music at Noon, Convocation Hall Student Recital Series featuring students from the Department of Music. Convocation Hall.

March 2, 8 p.m.

The Grant MacEwan Community College and the University of Alberta Jazz Bands. Raymond Baril and Tom Dust, directors. An Evening of Big Band Jazz. Admission: \$7/adult, \$5/student/senior. Convocation Hall.

SPORTS

BASKETBALL

February 20 and 21, 6:30 p.m.

Pandas vs. UBC

RRSP CONTRIBUTION LIMITS

Revenue Canada provided your 1997 RRSP contribution limit on your 1996 Notice of Assessment or Reassessment which you received when you filed your 1996 income tax return. Your limit was determined from information you provided on that return. However, if you had your 1996 return manually assessed (filed your return on the T1 short form), your Pension Adjustment (PA) amended, or a Past Service Pension Adjustment (PSPA) certified subsequent to your 1996 Notice of Assessment, you should have received a separate statement from Revenue Canada. If you are unable to locate your 1997 RRSP contribution limit, or if you want Revenue Canada to confirm it, you can contact the Tax Information Phone Service (T.I.P.S.) by calling 423-4993. This service can be used if you have a touch tone phone. If you do not have this type of phone, you can get the information by calling Revenue Canada's General Enquiries line. You will require your Social Insurance Number, date of birth and earned income reported on line 150 of your 1996 income tax return when you call.

Revenue Canada's deadline for making RRSP contributions for the 1997 tax year is March 2, 1998.

If you require additional information regarding the Pension Adjustment (PA) or Past Service Pension Adjustment (PSPA) please contact Human Resource Services at 492-4555.

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<http://www.hfs.ualberta.ca/>



Housing and Food Services
University of Alberta

positions

The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities. In accordance with Canadian Immigration requirements, preference will be given to Canadian citizens and permanent residents.

HUMAN RESOURCE SERVICES

Human Resources Services has recently reorganized to better serve the university community. Our vision is to be an acknowledged leader in the pursuit of workplace and people excellence. New opportunities now exist for individuals who have demonstrated the ability to lead a small team of human resource professionals; who can understand our clients' businesses when responding to their needs; who can develop and implement strategic initiatives that support a decentralized responsibility and accountability structure; and who can build collaborative approaches to resolving workplace issues.

Successful candidates will have demonstrated leadership skills, have eight to 12 years of progressively responsible experience including extensive experience in the particular specialty area, commitment to a decentralized decision-making structure, and a track record of achieving client satisfaction. Candidates should have the appropriate academic credentials for the particular position, such as post-secondary education in human resources, industrial relations, business, vocational rehabilitation or a related field. Experience in a large unionized environment is preferred, and CHRP designation is an asset.

The following positions are currently under review; candidates are requested to submit a resume and a cover letter indicating the position that they are applying for by March 4, 1998, to

Human Resource Services:

2-40 Assiniboia Hall, University of Alberta,
Edmonton, Alberta T6G 2E7

SENIOR ADVISOR, EMPLOYEE RELATIONS

Providing expertise and direction to the Employee Relations Unit and to the university community, the incumbent will be primarily responsible for monitoring the dispute resolution process, administering the collective agreements, assisting in negotiations, and for working with clients, employees and the union to effectively resolve issues.

SENIOR ADVISOR, RECRUITMENT AND SELECTION

Developing strategic recruitment initiatives and disseminating recruitment knowledge to our clients will be key responsibilities of the incumbent, as well as leading the Recruitment and Selection Unit.

SENIOR ADVISOR, JOB EVALUATION AND COMPENSATION

Developing and implementing effective strategies for monitoring and modifying the job evaluation and compensation systems, as well as coordinating design changes, the incumbent is also responsible for leading the Job Evaluation and Compensation Unit. Experience with various job evaluation and compensation systems is a prerequisite and experience with the AIKEN plan is preferred.

DISABILITY MANAGEMENT COORDINATOR

Developing new strategic initiatives and effectively coordinating a comprehensive disability management program for the university community will be the primary responsibilities of the incumbent, including supporting and guiding the Disability Management Unit. Extensive "hands-on" disability management experience is a prerequisite.

ADMINISTRATIVE PROFESSIONAL OFFICER

DEPARTMENT OF CHEMISTRY

The Department of Chemistry and the Faculty of Science invites applications for the position of Administrative Professional Officer (APO).

The Department of Chemistry is one of the largest teaching and research units on the campus. The APO, reporting to the chair, is responsible for the business management, personnel supervision and physical plant maintenance and development of the department. Specific responsibilities include: management of departmental and staff trust funds; budget preparation and submission; supervision of support staff; management of departmental shops and storerooms; supervision of purchasing, secretarial and administrative services; and planning, initiation and supervision of renovations, repairs and maintenance involving the physical plant of the department.

We are looking for a dedicated professional with initiative, and excellent organizational, supervisory, and interpersonal skills. Applicants should have a university degree; considerable administrative experience, preferably in a university setting, and excellent computer skills in both Macintosh and Windows environments along with experience using spread sheet and data management software. The salary range for this position is \$41,450 to \$62,174 (under review).

Applicants should submit a resume and arrange to have three confidential letters of recommendation sent on their behalf prior to March 13, 1998 to

Professor Gary Horlick
Chair, Department of Chemistry
University of Alberta
Edmonton, Alberta, T6G 2G2

ASSISTANT DIRECTOR— PROFESSIONAL DEVELOPMENT AND MARKETING

MBA PROGRAMS AND PROFESSIONAL DEVELOPMENT

FACULTY OF BUSINESS

UNIVERSITY OF ALBERTA

Applications are invited for the position of Assistant Director, Professional Development and Marketing, Office of MBA Programs and Professional Development, Faculty of Business. Reporting to the associate dean (MBA programs and professional development), the successful candidate will direct marketing and recruitment for MBA programs, professional development programs, the faculty's distance learning programs and the EMBA program. Responsibilities include program coordination, marketing, development of professional development courses and programs, recruitment of corporate and individual clients, and liaison with other faculties and institutions.

Initial appointment to this full-time position will be for a year with the possibility of renewal. Salary range is \$48,000 to \$53,000. The ideal candidate will have an MBA degree or equivalent, knowledge of executive development trends and corporate requirements, marketing experience, and training in customer relations, personal development and communications. Familiarity with a university environment, excellent communication skills, computer expertise and the ability to interact well with the public and university staff are important.

Applications should be forwarded to
Kay Devine
Associate Dean
(MBA Programs and Professional Development)
2-30 Business Building
University of Alberta
Edmonton, AB T6G 2R6

The competition will remain open until the position is filled.

ASSISTANT DIRECTOR— STUDENT DEVELOPMENT AND INFORMATION SYSTEMS

MBA PROGRAMS AND PROFESSIONAL DEVELOPMENT

FACULTY OF BUSINESS

UNIVERSITY OF ALBERTA

Applications are invited for the position of Assistant Director, Student Development and Information Systems, Office of MBA Programs and Professional Development, Faculty of Business. Reporting to the associate dean (MBA programs and professional development), the successful candidate will advise students, monitor student progress, and maintain student records in an electronic format. Additional responsibilities include statistical analysis to support decisions on program viability, technical liaison with university student registration systems, administration of student computer lab, international student exchanges, and assistance with MBA placement and program marketing and recruitment.

Initial appointment to this full-time position will be for a year with the possibility of renewal. Salary range is \$48,000 to \$53,000. The ideal candidate will have an MBA degree or equivalent, good technical and statistical knowledge, and training in customer relations, personal development and communications. Familiarity with a university environment, excellent communication skills, and the ability to interact well with the public and university staff are important.

Applications should be forwarded to
Kay Devine
Associate Dean
(MBA Programs and Professional Development)
2-30 Business Building
University of Alberta
Edmonton, AB T6G 2R6

The competition will remain open until the position is filled.

DIRECTOR

ST. JOSEPH'S COLLEGE ETHICS CENTRE

The Board of Governors of St. Joseph's College, University of Alberta, Edmonton, is seeking candidates

Continued on page 14

Facts on UofA's Cold Beverage Agreement

The University of Alberta has signed a tentative agreement with Coca-Cola.

The agreement will make Coca-Cola the exclusive cold beverage provider for the University of Alberta. There are a number of points worth noting about this agreement:

- Student representatives have been involved in negotiations since the very beginning.
- The value of the agreement is worth more than \$5 million over the next ten years.
- The University and HUB merchants will direct at least \$4.5 million to scholarships and bursaries. Coca-Cola will add an additional \$100,000 to bursaries.
- The Coca-Cola agreement will be able to fund 4,600 students with a \$1000 scholarship over the next 10 years.
- In addition, the Students' Union will make at least \$500,000 over the term of the contract and will target those funds to student programs.
- 100% of the net profits from the agreement will go directly to students in the form of student bursaries, scholarships and other student services.
- Coca-Cola has guaranteed campus merchants a wholesale price freeze in excess of 3 years.
- Students and staff will continue to have the option of bringing the beverage of their choice on campus.

- Coca-Cola has no role or input into the teaching, research and community service function at the University of Alberta.

Why did students and the University's administration direct the net proceeds to scholarships and bursaries?

- Our entrance scholarship program is under-funded. Our existing entrance scholarship funding is exhausted before we reach applicants with 90% averages in grade 12.
- Without an infusion of funds into our scholarship pool, we would see a decline in applications of students with 80% and higher averages.
- Many other universities now offer significantly larger scholarships for those students whose average falls between 80 and 90%.
- Last year 650 UofA students received emergency loans, 60 received emergency bursaries, and 300 received supplemental bursaries.
- 40% of UofA students are forced to seek financial support. The average GPA of a student receiving support is 7.7.



INFORMATION on scholarships

Ron Chilibeck, 492-3221.

INFORMATION on bursaries and/or emergency financial aid

Erika Schulz, 492-3483 or Burton Smith, 492-4145.

INFORMATION on the agreement with Coca-Cola

David Bruch, 492-4288.

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positions

Continued from page 12

dates for the position of Director, St. Joseph's College Ethics Centre. The centre is a community service that is well known to Catholic health-care facilities as well as the wider Alberta health-care community. The centre offers a strong contribution to health care excellence in Alberta through addressing health-care ethics issues that confront individual patients, families, health care providers and researchers. These issues are addressed through analysis and presentation of current interdisciplinary ethical dialogue in light of the Catholic moral heritage.

The director will hold an initial appointment for a period of five years, will work with an advisory board, and will report to the president of St. Joseph's College. The successful candidate will provide leadership in the development and delivery of services, which include clinical consultation, continuing ethics education, policy analysis and research. The director will also serve as clinical ethicist for Catholic health-care institutions in Alberta, including CARITAS Health Group in the city of Edmonton. The candidate will network with individual groups and organizations focused on particular ethical issues.

The successful candidate will have at least a graduate degree in moral theology or health-care ethics in the Catholic tradition, be an effective communicator and a competent adult educator, and have experience in clinical consultation in the health-care sector.

Qualified candidates send resumes to
Professor Shannon O'Bryne
Chairperson
St. Joseph's College Ethics Centre Search Committee

Faculty of Law, 413 Law Centre
University of Alberta, Edmonton, Alberta,
Canada T6G 2H5.

This competition will remain open until a suitable candidate has been selected. For more information please consult the centre's website at (www.connect.ab.ca/~ethics) and/or Reverend Timothy C. Scott, C.S.B., at (403) 492-7681.

The successful candidate will have to be eligible to work in Canada.

COMPUTER SERVICES COORDINATOR **DEPARTMENT OF AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCE**

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Reporting to the associate chair of student services, you will promote learning technology initiatives and be a key player in the development of the Centre for Learning within the Department of Agricultural, Food and Nutritional Science. You will coordinate department activity with the university's Academic Technologies for Learning Group. You will keep department staff aware of developments in electronic learning and teaching opportunities, and assist academics with the planning and implementation of courseware applications. You will identify sources of funds for computer-related initiatives, and take a lead role in acquiring these funds. You will identify computing needs (teaching and research) of staff and students, and develop strategies to meet these needs and to provide the associated training.

As a key member of the Faculty Computer Committee, you will maintain close links with equivalent positions within the faculty and with Computer Network Services. At the faculty level, you will coordinate the websites of the Faculty. You will coordinate desktop support to meet the needs of faculty, staff

and students; and supervise the unit providing this support.

Your Credentials:

You will possess a degree in a related discipline (preferably a master's degree). You will have a solid working background in computing, instructional design and/or instruction technology. Essential knowledge will include awareness of: educational multimedia, computer-based conferencing and the use of the Web for the delivery of educational materials. You will be self-motivated, able to work under minimal supervision and have excellent communication skills.

The salary range for this position is \$37,836 to \$48,828.

To explore this opportunity, send your application by February 20, 1998 to

Dr. Jerry Leonard

Associate Chair of Student Services
Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, Alberta T6G 2P5.

For further information on the position contact Dr. Leonard at (403) 492-0107 / (403) 492-4265 (fax) or email jleonard@afns.ualberta.ca.

COORDINATOR OF RESEARCH

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The Faculty of Agriculture, Forestry and Home Economics invites applications for the position of Research Services Coordinator. Reporting to the chair of the Department of Agricultural, Food and Nutritional Science, the Research Services Coordinator focuses on enhancing the faculty's leadership role in research, teaching and technology transfer in agrifood systems and health related areas. Responsibilities include the identification of emerging issues and the development and implementation of action plans by which the faculty programs in agrifood systems and health can respond to these needs. This involves developing extensive linkages with on and off-campus partners including government, industry and other external agencies and organizations.

The candidate will also be responsible for the efficient coordination and management of the Faculty Research Station Facilities. The Research Coordinator acts as liaison between the chairs of the Departments of Agricultural, Food and Nutritional Science, and Renewable Resources and represents the faculty externally and internally on issues related to the Research Station facilities. S/he contributes to research activity through existing and emerging centres, and through department administrative committees.

The successful candidate will demonstrate superior interpersonal and communication skills, be a strategic thinker and have extensive management and leadership experience. A PhD in an area relating to departmental interests is desirable.

Applications, including a complete curriculum vitae and the names of three references, should be sent by March 27, 1998 to

Dr. John Kennedy

Chair, Department of Agricultural, Food and Nutritional Science

Room 410, Agricultural/Forestry Centre

University of Alberta T6G 2P5

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notices

Please send notices attention Folio 400 Athabasca Hall, University of Alberta, T6G 2E8 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

VOLUNTEERS NEEDED

Healthy volunteers, aged 18-60 are sought for a medical study on peptides. The research involves an assessment, medical exam and two research tests. Expenses reimbursed. For information, please call 492-0617.

Volunteers are also needed for the Division of Infectious Diseases, which is currently conducting a study evaluation a new treatment for urinary tract (bladder) infections in women. If you would consider participating as a paid volunteer, please call the research office at 492-6945 or 492-1236.

WHEN THREE IS NOT A CROWD: MULTIPONT VIDEOCONFERENCING

In conjunction with the Faculty of Nursing, Faculty Saint Jean, and Special Sessions, Academic Technologies for Learning has leased four videoconference ports for a five month period. Bridging services are available until June 30, 1998 and are free of charge for faculty and staff (excluding long distance calls).

For more information on the session or booking a multipoint videoconference, please call 492-8596 or e-mail janice.picard@ualberta.ca.

PHARMACY AWARENESS WEEK, MARCH 2-8

Your pharmacist does more than count pills! The Faculty of Pharmacy and Pharmaceutical Sciences and the Alberta Pharmacy Students' Association will

show you how the profession is changing. Drop by the foyer of the Dentistry/Pharmacy Building between 11 a.m. and 3 p.m. Wednesday, March 4, 1998. There will be talks on topics ranging from herbal medicines to hormone replacement therapy and how to prepare for travel overseas. Have your blood pressure checked, dispose of outdated medications and learn how to set up a personal medication record. Staff, students and campus visitors are welcome. For further information, please contact the Faculty of Pharmacy at 492-3362.

ATTENTION, PROFESSORS EMERITI!

The Millennium Project is seeking the best (or most interesting) memories of your career at the university (or in related professional activities). To that end, they solicit your contributions (maximum of roughly 1,500 words). Should you prefer, a personal or taped interview can be arranged by calling 492-2914. Send your memoir to The Editor, Millennium Project, 11034-89th Avenue, T6G 0Z7. (Through campus mail.) Deadline: November 30, 1998.

ELECTRONIC JOURNALS DEMONSTRATION

Demonstrations of Project Muse/Electronic Journals from Johns Hopkins University Press will be held on a drop-in basis in the Data Library, Rutherford North Library, first floor, 11 a.m. to 2:30 p.m. and 4 to 5 p.m. February 27.

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An Open House will be held 7:30 - 9:00 PM, February 23, 1998.

Everyone is invited to attend. On the Internet at <http://www.ualberta.ca/~iigm> there will be a simultaneous virtual opening.

The Institute is located at 6-10 University Extension Centre, 8303 112 Street. Parking is available beneath the Extension Centre.

1998 WORKSHOPS

Please see our website for complete listings:
<http://www.ualberta.ca/~iigm>

Topics in Qualitative Methods
Instructor: Jan Morse
February 26-March 17
(Tues, Thu 6-9 PM, Sat 9-4 PM)

Interpretive Phenomenology
Instructor: Max van Manen
June 1-5

Conducting Focus Groups
Instructor: Martha Ann Carey
March 28

Narrative Inquiry
Instructor: Jean Clandinin
Please watch our web site

Data Analysis Workshop
Instructors: Lyn Richards and Jan Morse
April 20-22

NUD-IST
Instructor: Lyn Richards
August 8-9

Ethnography
Instructor: Michael Agar
August 10-14

Ethnograph
Instructor: John Seidel
August 15-16

Grounded Theory
Instructors: Barney Glaser & Phyllis Stern
Please watch our web site

Working Seminar in Qualitative Analysis
Instructor: Julie Corbin
August 17-21

folio back page

Medieval

Grad student and alumnae cutting their first CD

By Lucianna Ciccocioppo

Take four close friends who love to sing, place them in an old church with a kaleidoscope of stained glass, dress them up in rich velvets and brocades (courtesy of the used-curtain section of the "Value Village") and what have you got?

A women's medieval music ensemble called "Trobairitz."

The music and singing of Trobairitz takes you back to a time of damsels and dragons, of towering knights and fire-breathing monsters, of affairs of the court and affairs of the heart.

Trobairitz, derived from the Provençal French word for "troubadour," have been together for about two and half years, performing music from the 11th to the 14th centuries. Their repertoire includes secular and romantic works, Gregorian chants, dance, sacred and pilgrim pieces.

They also perform motets, which are sung a cappella, and are polyphonic. With more than one voice line, the complex motet includes text ranging from the vulgar to the sacred. That means one member may be the low voice of a knight talking dirty to his maiden, while the others sing progressively higher and more sacred.

While they all have full-time jobs or studies, the women have been working to get Trobairitz off the ground. Joy-Anne Murphy, a voice teacher in Camrose, takes care of the publicity and administrative duties. She entitled their first concert in Convocation Hall last year "The Medieval Chick Band." The "alternative and funky" Wendy Gronnestad, a string player, helps find props and musical instruments and Susan Pierce, leasing company employee by day, percussionist by night, is the costume designer and seamstress extraordinaire. All are U of A alumnae.

Kathy Wallace, a second-year U of A Ph.D. student in music history, is the mu-



Trobairitz: Music student Katherine Wallace, centre, with alumnae (left to right) Susan Pierce, Joy-Anne Murphy and Wendy Gronnestad.

sical scholar in the group. "I choose the repertoire and find the sources...The library has a fabulous collection of facsimiles and modern manuscripts." Wallace enjoys digging up music of women composers of the medieval period. Her eyes shine as she describes the importance of finding copies of original manuscripts, untainted with the interpretations of a modern editor.

Wallace wants to do her own creative thinking.

"It's a lot of interpretation because medieval musicians did not write a lot down. There was no musical notation. So, it's a lot of educated guesses about the music of the time."

Getting a feel for the music is a collective decision, says Wallace, and all Trobairitz members have "something unique to offer."

What they all share is a love of singing. All are members of Pro Coro Canada,

"It's a lot of interpretation because medieval musicians did not write a lot down. There was no musical notation, so it's a lot of educated guesses about the music of the time."

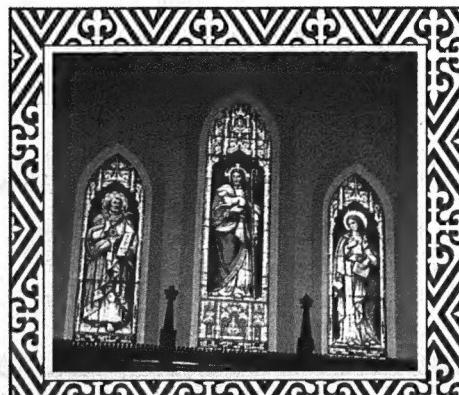
a local singing group. But it was after Wallace and Murphy attended an early-music school in England one summer that they were inspired to start a group of their own. Wallace credits workshops with "Dufay Collective," a well-known medieval group for encouraging them to start Trobairitz in 1995. Wallace knew Wendy Gronnestad through the Madrigal Singers and recruited Susan Pierce because "well, she's my sister and I knew she wanted to sing."

So far, Trobairitz have put on three concerts. "Audiences have been great, really responsive," says Wallace, although they haven't been large yet. Most of their loyal fans are family members

and friends, laughs Wallace, although she hopes that may soon change.

That's because Trobairitz were "discovered" at their last concert at Holy Trinity Anglican Church in January. And now they're recording their first CD under the local label, Arktos. The producer is John Mahon, from the Edmonton Arts Council who caught their act recently and signed them up the next day.

"4 Seasons of Love and Song" will be available soon. And before long, Edmontonians will be able to close their eyes and take a journey back to a musical place of song and dance and where stories began with "Once upon a time..." ■



Photos: David Heider